SERVICE MANUAL

FISHER

FVH-P615

(EUROPE)

VIDEO CASSETTE RECORDER
PARTS LIST & SCHEMATIC DIAGRAM

SPECIFICATIONS

General Specifications	
Television system	PAL standard color (System B & G) & CCIR monochrome signals 625 lines
Recording system	Rotary two-head helical scan system
Format	VHS PAL standard
Tape width	12.7 mm
Tape speed	23.39 mm/sec.
Recording time	240 minutes with E-240 cassette
Tape loading system	Automatic loading
Tuner channel selection system	Soft touch, 12 channels
Tuner channels	VHF: #2—#12 UHF: #21—#69
RF converter output	UHF channel 36 (30—39 adjustable)
Time indication	24-hour display system
Timer	9-days, 1 programme
Tape counter	Separate 4-digit electronic display
Auto rewind system	Activated at end of tape when FUNCTION ON switch is pressed
Terminals	
Aerial input	DIN (socket)
RF output	DIN (plug)
Video input/output	BNC connector
Audio input/output	RCA connector
Camera remote pause	2.5 mm jack
Remote	3.5 mm jack
Electrical Specifications	
Video output level	1 Vp-p
Video output impedance	75 ohms
Audio output level	—6 dB
Audio output impedance	600 ohms
Video input level	0.5—2.0 Vp-p
Video input impedance	75 ohms
Audio input level	—20 dB
Audio input impedance	50 kohms
Video S/N ratio	43 dB
Audio S/N ratio	42 dB
Audio bandwidth	50 Hz—10kHz
Horizontal Resolution	Colour 240 lines
Other Specifications	
Power requirement	220 V, 50 Hz
Power consumption	36 Watts
Dimensions	440 mm(W)×125 mm(H)×330 mm(D)
Weight	7.5 Kg (Approximate)

Because its products are subject to continuous improvement, FISHER CORPORATION reserves the right to modify product designs and specifications without notice and without incurring any obligation.

PARTS LIST

PRODUCT SAFETY NOTICE

The components designated by a symbol(⚠) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List.
Do not deviate from the resistance, wattage and voltage ratings shown.

ACCESSORIES

Ref No	Part No.	Description
	143-6-2704-13200	FAN BAG ASSY(Plastic Bag)
	4-1924-00260	WIRED REMOTE CONTROL
	4-2394-00030	CONNECTOR CABLE
	4-2414-00040	CASSETTE TAPE
	143-6-2704-13300	FAN BAG ASSY(Plastic Bag)
	143-6-2714-00200	ENVELOPE
	143-6-4114-08500	INSTRUCTION MANUAL
	143-6-4124-03900	INSTRUCTION CARD
	143-6-4514-00900	WARRANTY CARD
	143-2-1954-02803	LABEL TIMER-HAB-D
	143-2-1954-03605	LABEL PRESET-HAB-F

PACKING MATERIALS

Ref No	Part No.	Description
	143-6-1424-00600	IND. CORR CARTON CTN-FEUP615
	143-6-1464-00200	ACCESSORY CASE-HAA
	143-6-2514-00100	IND. POLY COVER-HV01
	143-6-3114-00700	RIGHT INNER CUSHION-HAB
	143-6-3114-00800	LEFT INNER CUSHION-HAB
	143-6-3234-00200	PROTECTIVE SHEET-HV01-B
	143-6-3244-00100	PLUG CAP-HV01

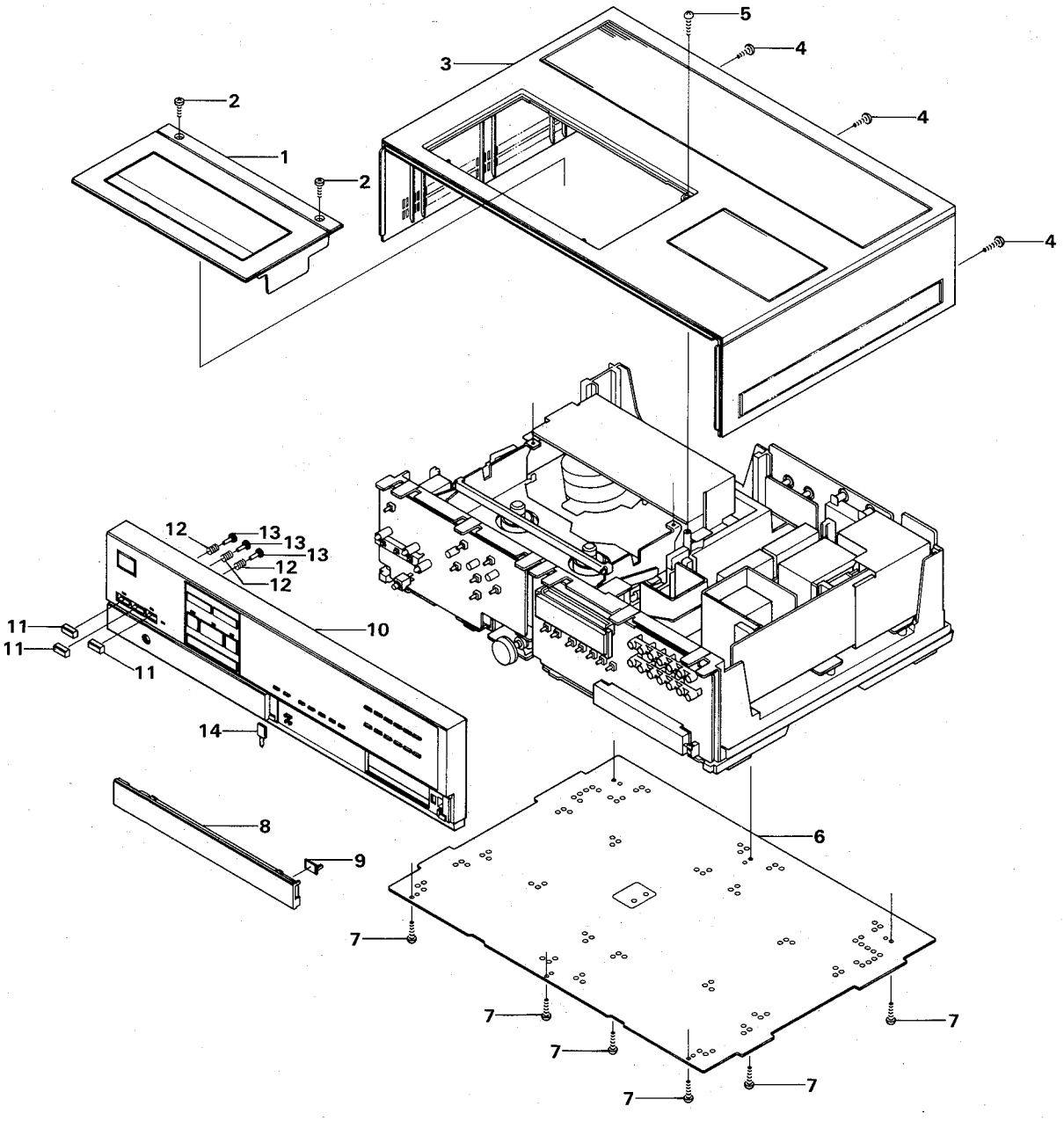
NOTE: Parts order must contain Model Number, Part Number and Description.

CABINET PARTS (1)

Ref No	Part No.	Description
1	143-0-1404-00200	Lid Cassette Assy-HAB
2	101-3-1703-00814	Screw, Bind Hd Machine +M3X8
3	143-0-1204-00300	Cabinet Top Assy-HAB
4	103-3-1904-01211	Screw, Brazier Hd Tapping S-Tite +M4X12
5	103-3-1903-01211	Screw, Brazier Hd Tapping S-Tite +M3X12
6	143-0-1354-00200	Bottom Cover Assy-HAB
7	103-3-1903-01218	Screw, Brazier Hd Tapping S-Tite

Ref No	Part No.	Descrription
		+M3X12
8	143-0-1454-00400	Door, Preset Assy-HAB
9	143-2-6104-02300	Slide, AFT Switch-HAB
10	143-0-1104-00600	Cabinet Front Assy-HAB
11	143-2-1704-06100	Button, Power-HAB
12	143-2-6704-02100	Spring, Button-HAB
13	143-2-1704-06200	Flange, Button-HAB
14	143-2-5804-02100	Driver-A

NOTE: Parts order must contain Model Number, Part Number and Description.

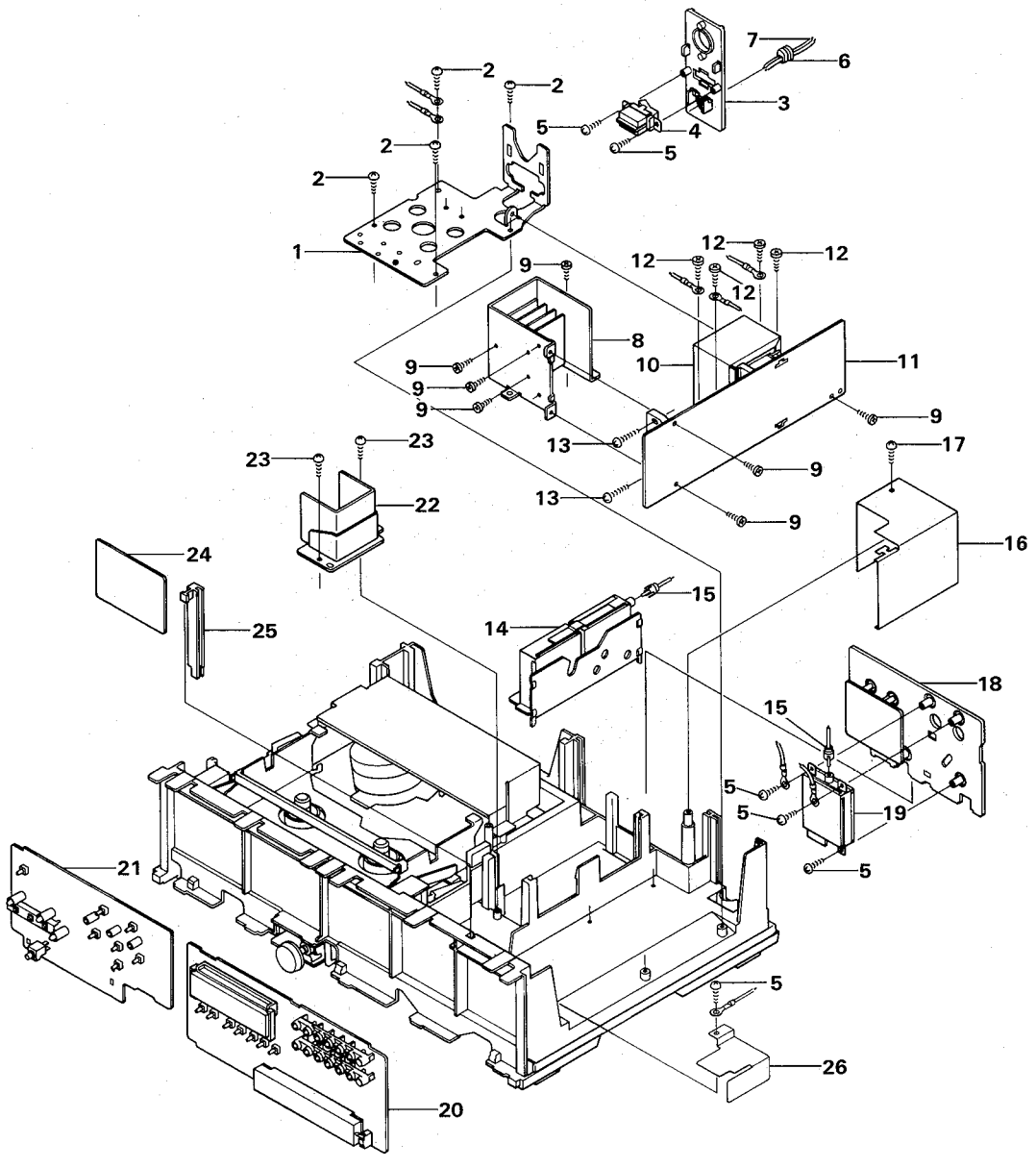


CABINET PARTS (2)

Ref No	Part No.	Description
1	143-2-3404-07400	Brkt, Power Unit-HAB
2	103-3-1904-01211	Screw, Brazier Hd Tapping S-Tite +M4X12
3	143-0-1204-00400	Power Terminal Board Assy-HAB
4	4-2314-00340	See Saw Switch
5	103-3-1903-00811	Screw, Brazier Hd Tapping S-Tite +M3X8
6	143-2-6104-02400	HEYCO Bush-SR-4K-4
7	0-4054-00090	Power Cord Assy (EUR)
or	0-4054-00091	Power Cord Assy (EUR)
8	143-0-7904-00400	Radiator Assy-HAB
9	116-3-1703-00811	Screw, Bind Hd Tapping B-Tite +M3X8
10	4-2514-00402	Power Transformer
11	0-4014-01401	Power A, PC Assy
12	116-3-1704-00811	Screw, Bind Hd Tapping B-Tite +M4X8

Ref No	Part No.	Description
13	103-3-1903-51612	Screw, Brazier Hd Tapping S-Tite +M3.5X16
14	4-1154-03220	Tuner IF Unit
15	0-4034-00050	Wire Shield Assy
16	143-2-3604-00700	Insulator Plate-HAB
17	103-3-1903-00811	Screw, Brazier Hd Tapping S-Tite +M3X8
18	0-4014-01090	Rear Terminal PC Assy
19	4-1164-02220	RF Converter-A
20	0-4014-01130	Timer PC Assy
21	0-4014-01122	Key Function PC Assy
22	0-4014-01410	Power B, PC Assy
23	103-3-1903-01011	Screw, Brazier Hd Tapping S-Tite +M3X10
24	0-4014-01080	Mute PC Assy
25	143-2-3304-02000	P.C.B. Holder-HAB-B
26	143-2-3504-04500	Shieled Plate-HAB-B

NOTE: Parts order must contain Model Number, Part Number and Description.

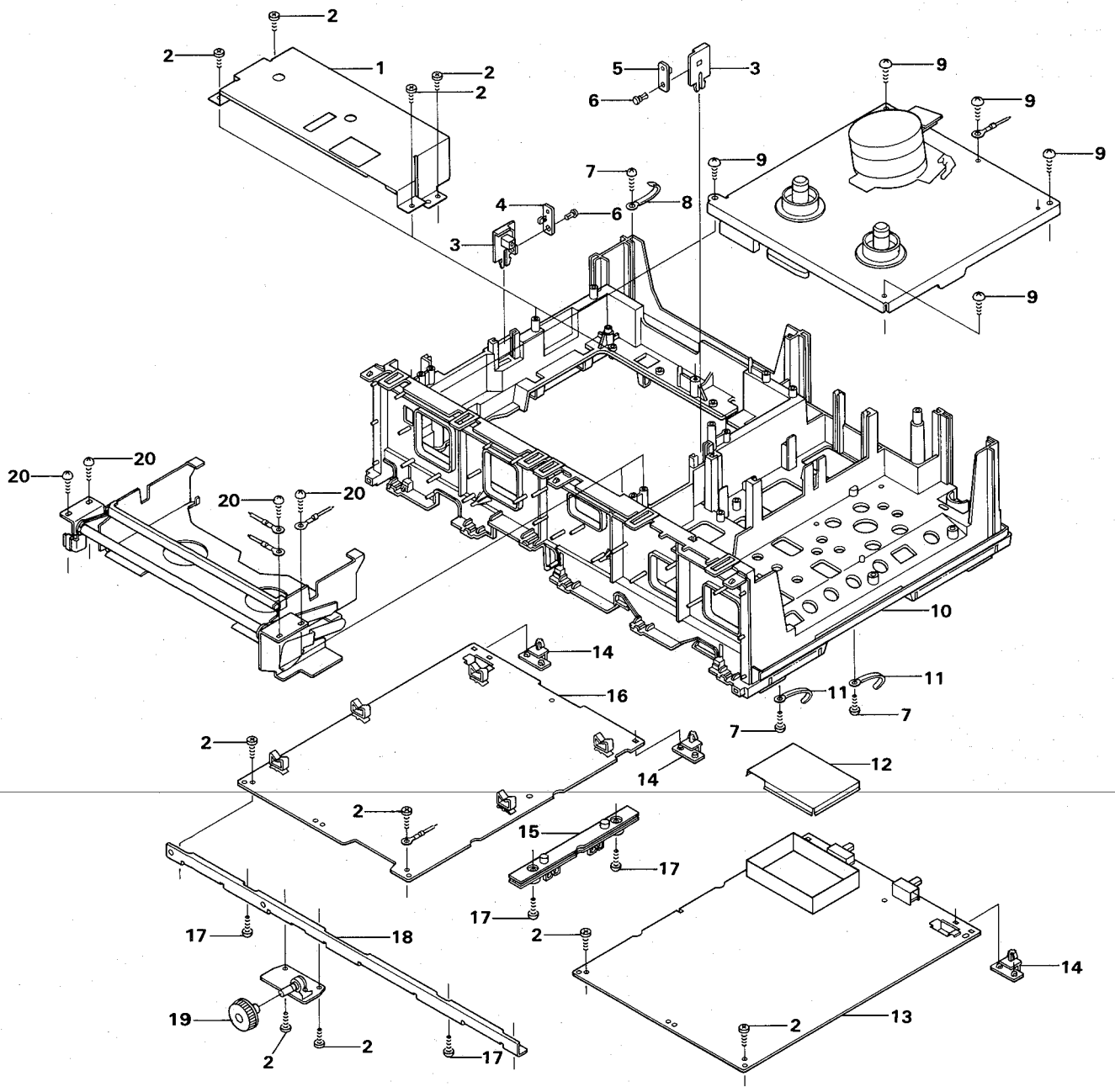


CABINET PARTS (3)

Ref No	Part No.	Description
1	143-2-3504-02500	Shield Plate-HAB
2	116-3-1703-00811	Screw, Brazier Hd Tapping B-Tite +M3X8
3	143-2-3404-07100	Holder, Sensor-HAB
4	0-4014-01140	End Sensor PC Assy (ESS)
5	0-4014-01140	End Sensor PC Assy (EST)
6	143-2-6104-03200	Plastic Rivet-3.5X5.5
7	103-3-1903-01011	Screw, Brazier Hd Tapping S-Tite +M3X10
8	143-2-5854-00300	Clamp, Wire
9	103-3-1804-01211	Screw, Tras Tapping +M4X12
10	143-0-1304-00300	Cabinet Bottom Assy-HAB

Ref No	Part No.	Description
11	143-2-5854-00400	Clamp, Wire
12	143-2-3504-02200	Shield, Case Top-HAB
13	0-4014-01100	Video Audio PC Assy
14	143-2-7404-00200	P.C.B Hinge-A
15	143-2-3304-01800	P.C.B Holder-HAB
16	0-4014-01112	Syscon Servo PC Assy
17	103-3-1903-01219	Screw, Brazier Hd Tapping S-Tite +M3X12
18	143-2-3404-07500	Brkt, P.C.B.-HAB
19	143-2-1704-06300	Knob, Tracking-HAB
20	101-3-1903-01211	Screw, Brazier Hd Tapping S-Tite +M3X12

NOTE: Parts order must contain Model Number, Part Number and Description.

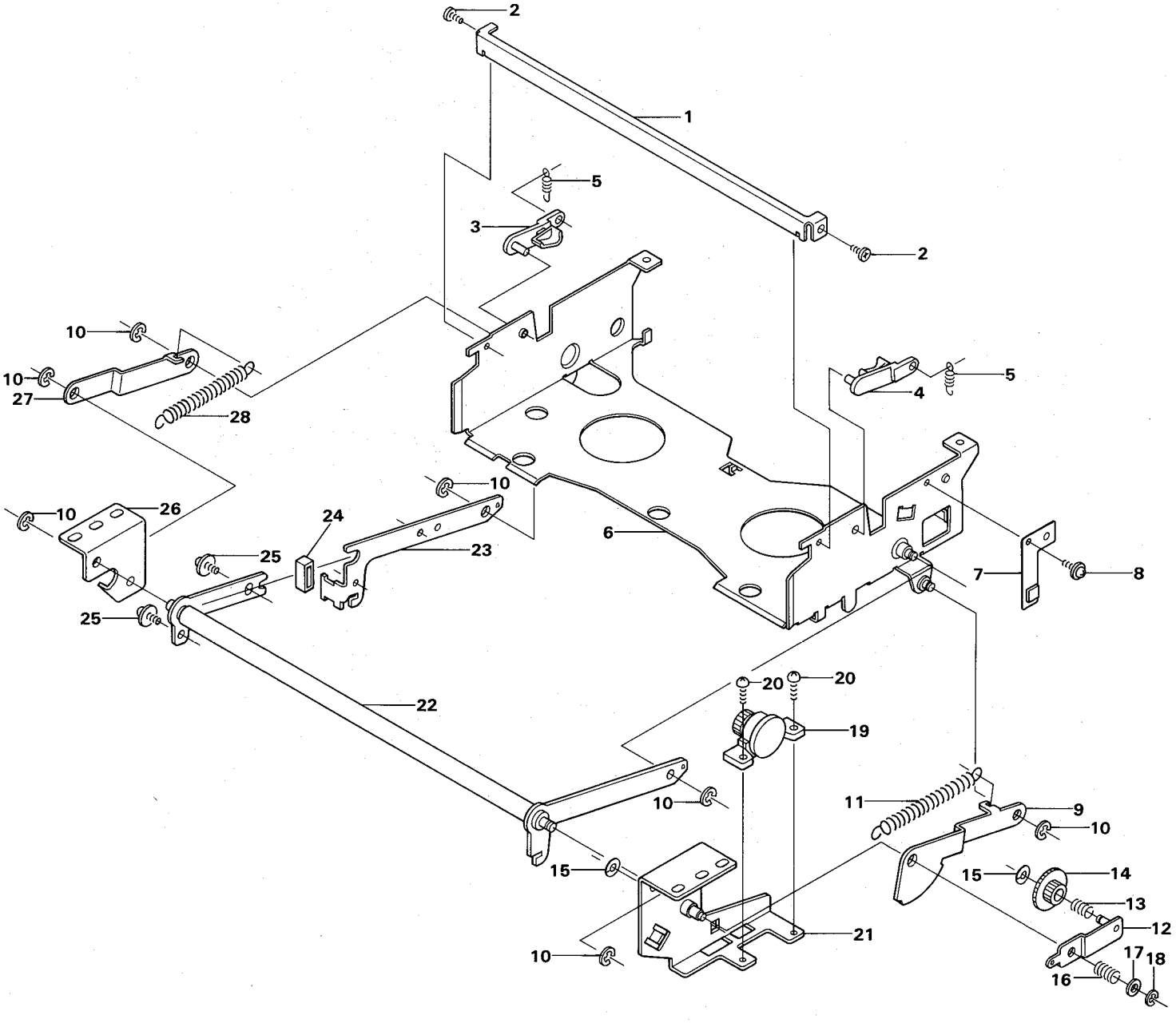


CHASSIS PARTS (1)

Ref No	Part No.	Description
1	143-2-7304-08400	Beam
2	101-3-1303-00411	Screw, Pan Hd Machine +M3X4
3	143-2-7304-08700	Clamp Cassette Hold Down Take Up Reel Side
4	143-2-7304-08600	Clamp Cassette Hold Down Supply Reel Side
5	143-2-6604-03200	Spring Cassette Hold Down Clamp
6	143-0-7304-04200	Stage Assy
7	143-2-6904-08600	Spring, Cassette Opener
8	143-2-5804-02205	Screw, Pan Hd Machine +M2.6X5
9	143-2-7304-09600	Link, Eject Take Up Low
10	112-3-1303-00040	E-Ring, M3
11	143-2-6604-03400	Spring, Link Eject Take Up
12	143-0-7304-04600	Plate Gear Assy
13	143-2-6704-03000	Spring, Gear Friction
14	143-2-7304-08300	Gear, Eject

Ref No	Part No.	Description
15	143-2-6304-02300	Washer, Stopper
16	143-2-6704-02800	Spring, Plate Gear
17	110-3-1203-00011	Washer, 7X3.2X0.5
18	112-3-1302-50040	E-Ring, M2.5
19	143-2-7304-10401	Oil, Damper
20	101-3-1303-00511	Screw, Pan Hd Machine +M3X5
21	143-0-7304-04400	Brkt Eject Take Assy
22	143-0-7304-04500	Lod Eject Assy
23	143-2-7304-09700	Link, Eject Supply
24	143-2-7304-08200	Cushion
25	136-3-1303-00516	Screw, Pan Hd Machine Combination Plain Washer +M3X5
26	143-0-7304-04300	Brkt Eject Supply Assy
27	143-2-7304-09500	Link, Eject Supply Low
28	143-2-6604-03300	Spring, Link Eject Supply

NOTE: Parts order must contain Model Number, Part Number and Description.

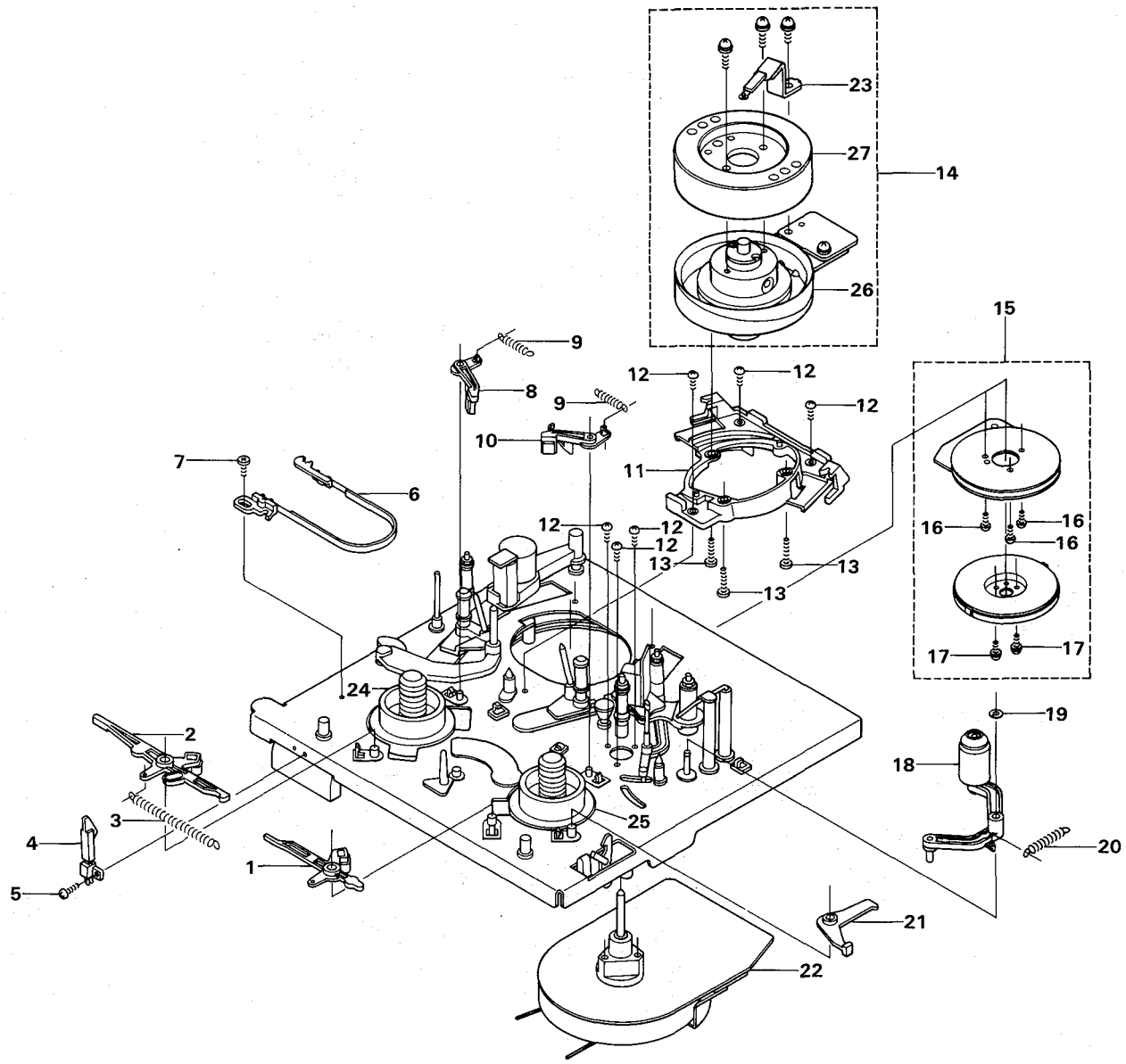


CHASSIS PARTS (2)

Ref No	Part No.	Description
1	143-0-5204-00700	Main Brake Take Up Assy
2	143-0-5204-00600	Main Brake Supply Assy
3	143-2-6604-02800	Spring, Main Brake
4	0-4064-00290	Safety Switch Assy
5	101-3-1302-60511	Screw, Pan Hd Machine +M2.6X5
6	143-2-5204-01500	Band, Brake
7	101-3-1702-60411	Screw, Bind Hd Machine +M2.6X4
8	143-0-5204-00400	Sub Brake Supply Assy
9	143-2-6604-04300	Spring, Sub Brake
10	143-0-5204-00500	Sub Brake Take Up Assy
11	143-0-3404-00800	Base Cylinder Assy
12	101-3-1302-60611	Screw, Pan Hd Machine +M2.6X6
13	101-3-1703-00611	Screw, Bind Hd Machine +M3X6
14	143-0-4704-02400	Cylinder Complete
15	4-5254-00120	Cylinder Motor

Ref No	Part No.	Description
or	4-5254-00121	Cylinder Motor
16	143-2-5804-02000	Screw, M2.3X5
17	143-2-5804-03000	Screw, Pan Hd Machine Combination Plain Washer +M2.3X5
18	143-0-4604-00700	Pinch Roller Final Assy
19	143-2-6304-01800	Washer, Stopper 2.5X6X0.25
20	143-2-6604-02400	Spring, Pinch Tension
21	143-2-5104-06100	Lever, Eject
22	4-5254-00130	Capstan, Motor
23	143-0-4704-02000	Earth Plate Assy
24	143-0-4104-00600	Reel Supply Assy
25	143-0-4104-00700	Reel Take Up Assy
26	143-0-9934-00200	Cylinder Assy
27	143-0-4704-01000	Cylinder Upper Assy

NOTE: Parts order must contain Model Number, Part Number and Description.

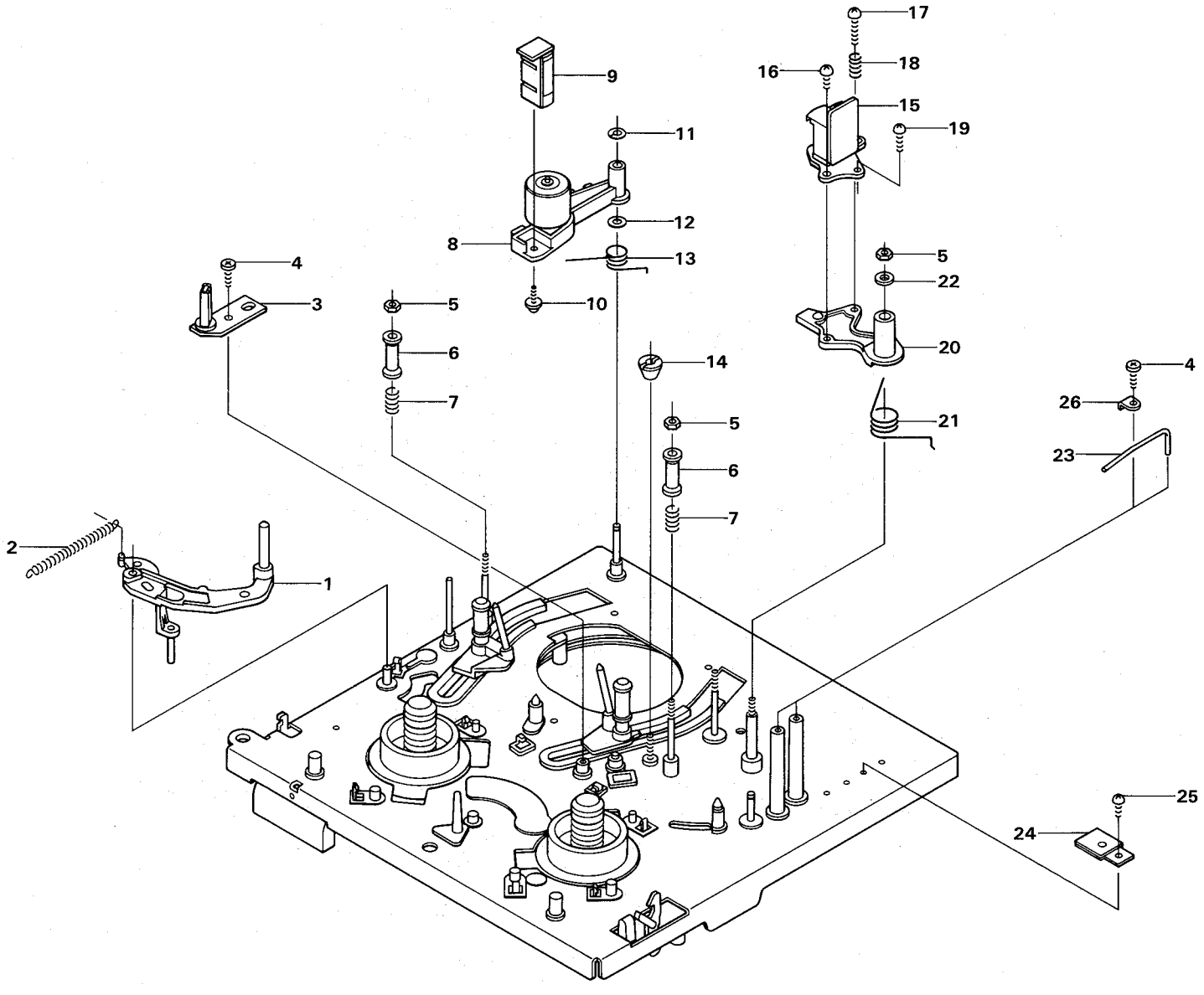


CHASSIS PARTS (3)

Ref No	Part No.	Description
1	143-0-5104-02700	Arm Tension Assy
2	143-2-6604-04200	Spring, Arm Tension
3	0-4014-01150	End LED PC Assy
4	119-3-1302-60611	Screw Pan Hd Tapping D-Tite +M2.6X6
5	106-3-1103-00011	Nut, M3
6	143-2-7704-01800	Guide, Tape
7	143-2-6704-00500	Spring, Adjust Guide
8	143-0-5104-01200	Arm Impedance Roller Complete
9	0-4064-00270	Full Erase Hd Assy
10	136-3-1302-00511	Screw, Pan Hd Machine Combination Plain Washer M2X5
11	143-2-6304-01800	Washer, Stopper 2.5X6X0.25
12	143-2-6304-00700	Washer, 3.2X6X0.25
13	143-2-6804-01600	Spring, Arm Impedance
14	143-2-5704-00400	Nut, Tangential

Ref No	Part No.	Description
15	0-4064-00260	Audio Control Erase Hd Assy
16	101-3-1302-60611	Screw, Pan Hd Machine +M2.6X6
17	101-3-1302-61211	Screw, Pan Hd Machine +M2.6X12
18	143-2-6704-01600	Spring, Azimuth
19	143-2-5804-02300	Set, Screw
20	143-2-5104-05400	Base, Audio Control Erase Hd
21	143-2-6704-03200	Spring Tangential Adjust
22	143-2-6204-00500	Washer, 3.2X8X1
23	143-2-3404-08100	Lid, Opener
24	143-0-3404-01700	Dew Sensor Assy
25	116-3-1702-60611	Screw, Bind Hd Tapping B-Tite +M2.6X6
26	143-2-3404-08200	Plate, Lid Opener

NOTE: Parts order must contain Model Number, Part Number and Description.

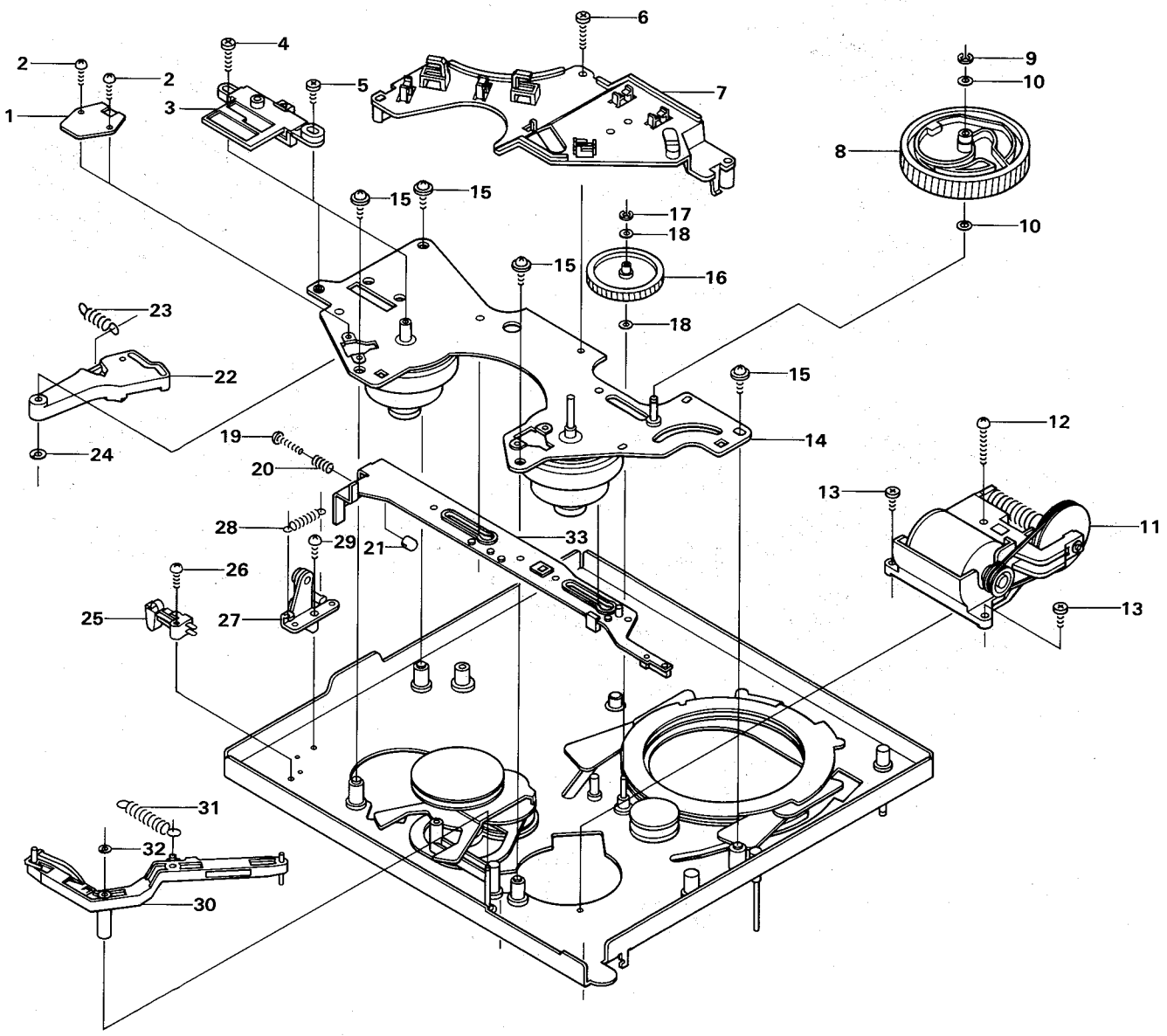


CHASSIS PARTS (4)

Ref No	Part No	Description
1	0-4014-01160	Counter PC Assy
2	101-3-1302-00311	Screw, Pan Hd Machine +M2X3
3	4-2314-00250	Mode, Select Switch
4	101-3-1702-60811	Screw, Bind Hd Machine +M2.6X8
5	101-3-1702-60411	Screw, Bind Hd Machine +M2.6X4
6	101-3-1702-61411	Screw, Bind Hd Machine +M2.6X14
7	143-2-3404-09700	Protector
8	143-2-7804-00300	Master, Cam
9	112-3-1302-50040	E-Ring, M2.5
10	143-2-6304-00700	Washer, 3.2X6X0.25
11	143-0-3404-01000	Loading Drive Complete
12	101-3-1702-62511	Screw, Bind Hd Machine +M2.6X25
13	101-3-1702-60611	Screw, Bind Hd Machine +M2.6X6
14	143-0-3404-01900	Brkt Reel Assy
15	143-2-5804-02508	Screw, Pan Hd Tapping Del-Tite +M2.6X8
16	143-2-4904-01300	Gear, Loading Take Up
17	112-3-1301-50040	E-Ring, M1.5

Ref No	Part No	Description
18	143-2-6304-00600	Washer, 2.1X4X0.25
19	101-3-1302-61211	Screw, Bind Hd Machine +M2.6X12
20	143-2-6704-02400	Spring, Stopper
21	143-2-6104-02600	Cap, Stopper
22	143-2-7804-00200	Actuator, Cam
23	143-2-6604-04600	Spring, Actuator Cam
24	143-2-6304-01800	Washer, Stopper 2.5X6X0.25
25	0-4064-00280	Stage Switch Assy
26	101-3-1302-00811	Screw, Pan Hd Machine +M2X8
27	143-0-5104-01800	Arm Lock Stage Assy
28	143-2-6604-03000	Spring, Lock Stage
29	101-3-1302-60411	Screw, Pan Hd Machine +M2.6X4
30	143-0-5104-02400	Arm Idler Control Complete
31	143-2-6604-04100	Spring, Arm Control
32	143-2-6304-01500	Washer, Stopper 1.5X4X0.25
33	143-0-5104-01600	Main Plate Assy

NOTE: Parts order must contain Model Number, Part Number and Description.

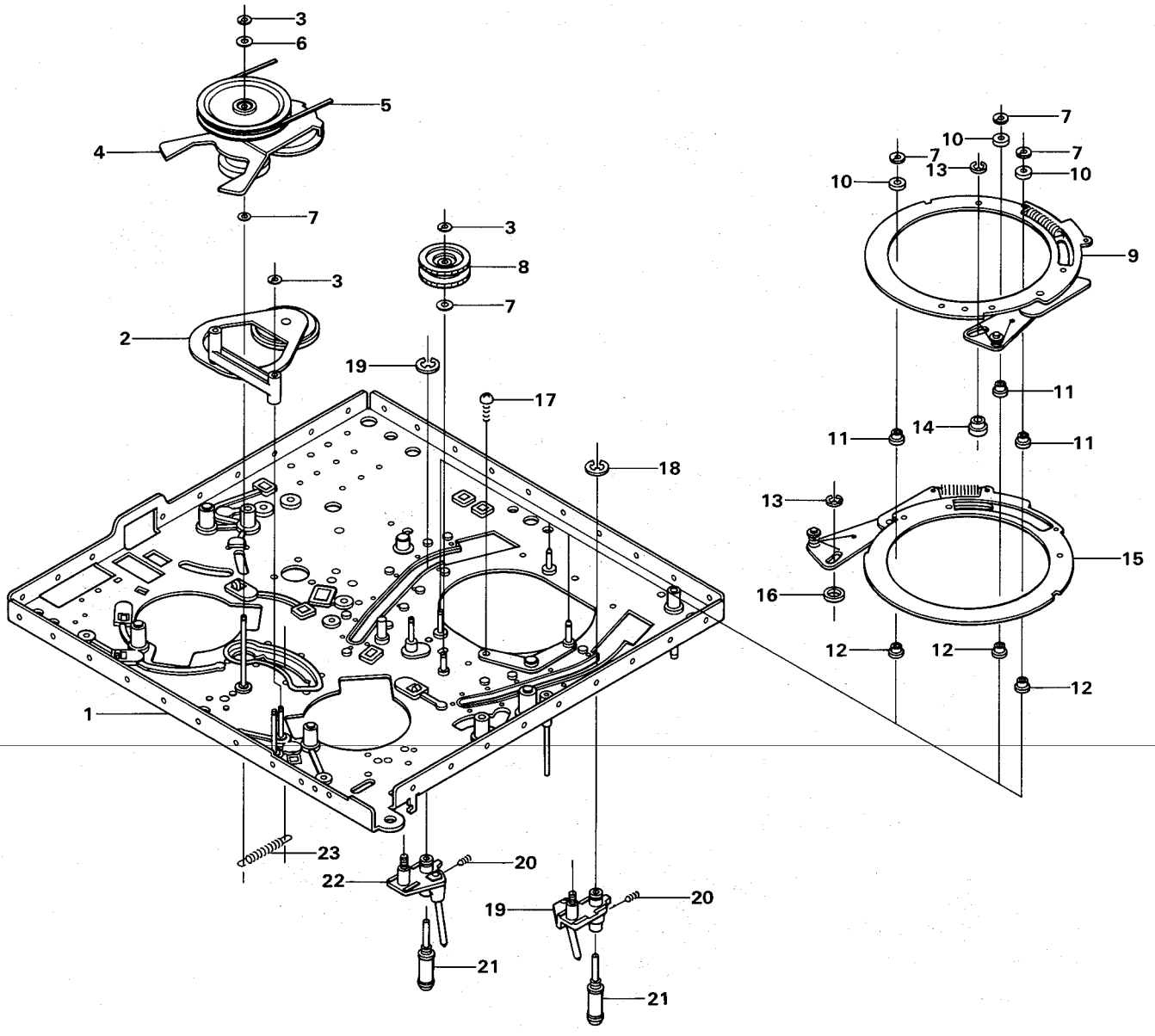


CHASSIS PARTS (5)

Ref No	Part No.	Description
1	143-0-3104-00300	Chassis Assy
2	143-0-4204-00300	Idler Assy
3	143-2-6304-01500	Washer, Stopper 1.5X4X0.25
4	143-0-4904-00900	Gear Idler Complete
5	143-2-7504-00400	Belt, Drive
6	143-2-6304-00700	Washer, 3.2X6X0.25
7	143-2-6304-00600	Washer, 2.1X4X0.25
8	143-2-4904-00800	Gear, Loading Supply
9	143-0-4904-00700	Ring Loading Supply Complete
10	143-2-4804-01200	Roller Lower
11	143-2-4804-01100	Roller Center
12	143-2-4804-01000	Roller, Upper
13	112-3-1302-00040	E-Ring, M2

Ref No	Part No.	Description
14	143-2-5604-02500	Spacer, Supply
15	143-0-4904-00500	Ring Loading Take Up Complete
16	143-2-5604-02600	Spacer, Take Up
17	143-2-5804-02205	Screw, Pan Hd with Flange +M2.6X5
18	112-3-1304-00040	E-Ring, M4
19	143-0-5104-01000	Base Guide Roller Supply Assy
20	115-3-3502-00486	Screw, Cone Type Hex M2X4
21	143-0-7704-00400	Guide Roller Assy
22	143-0-5104-00900	Base Guide Roller Take Up Assy
23	143-2-6704-02600	Spring, Idler

NOTE: Parts order must contain Model Number, Part Number and Description.



NOTE:

Materials of Capacitors and Resistors are abbreviated as follows.

ELECT. ..... Electrolytic Capacitor
CERAM. ..... Ceramic Capacitor
SEMI. ..... Semiconductor Capacitor
MYLAR ..... Mylar Film Capacitor
ALSIC. ..... Alsicon Capacitor
PMCON. ..... Polyester Polypropylene Capacitor
PPCON. ..... Polypropylene Capacitor
TANTA. ..... Tantal Electric Capacitor
CARBO. ..... Carbon
FUSE. ..... Fuse Resistor
OMF. ..... Oxide Metal Film
METAL. ..... Metal Oxide Metal Film

Tolerance of Capacitors and Resistors are noted with the follow symbols.

C. ..... ±0.25%
D. ..... ±0.5 PF
F. ..... ±1%
J. ..... ±5%
K. ..... ±10%
M. ..... ±20%
P. ..... +100%−0%
Z. ..... +80%−20%

VIDEO AUDIO CIRCUIT P.C.B. PARTS

VIDEO CIRCUIT PARTS

Schematic Location	Part No.	Description
	0-4014-01100	VIDEO PC ASSY
	0-4030-00450	1P CORD ASSY D
	4-2374-00070	1P TERMINAL-D
	143-2-3504-02100	SHIELD CASE-HAB
	143-2-3504-02300	SHIELD CASE BOT-HAB
	143-2-5854-01500	PC SUPPORT R4N
	143-2-6204-02700	GND PLATE-HAB
		(CAPACITORS)
C201	C1HYDZ223F	CERAM 0.022μF 50V Z
C202	C1HYDZ473F	CERAM 0.047μF 50V Z
C203	C1HCDJ221CH	CERAM 220pF 50V J
C204	C1HCDJ221CH	CERAM 220pF 50V J
C205	C1HYDZ473F	CERAM 0.047μF 50V Z
C207	C1HCDD100CH	CERAM 10pF 50V D
C208	C1EBDK103SR	SEMI 0.01μF 25V K
C209	C1EBDK103SR	SEMI 0.01μF 25V K
C211	C1EBDK103SR	SEMI 0.01μF 25V K
C212	C1HLEM474A	ELECT 0.47μF 50V M
C213	C1EBDK333SR	SEMI 0.033μF 25V K
C214	C1EBDK103SR	SEMI 0.01μF 25V K
C215	C1HYDZ223F	CERAM 0.022μF 50V Z
C216	C1ELEM475A	ELECT 4.7μF 25V M
C217	C1HCDJ680SL	CERAM 68pF 50V J
C218	C1HCDJ470CH	CERAM 47pF 50V J
C221	C1HCDJ220CH	CERAM 22pF 50V J
C222	C1HCDJ121SL	CERAM 120pF 50V J
C223	C1HCDJ471SL	CERAM 470pF 50V J
C224	C1HCDJ101SL	CERAM 100pF 50V J
C225	C1EBDK333SR	SEMI 0.033μF 25V K
C226	C1HCDJ151CH	CERAM 150pF 50V J
C227	C1EBDK223SR	SEMI 0.022μF 25V K
C228	C1EBDK223SR	SEMI 0.022μF 25V K
C232	C1EBDK103SR	SEMI 0.01μF 25V K
C233	C1HCDJ120CH	CERAM 12pF 50V J
C234	C1EBDK103SR	SEMI 0.01μF 25V K
C236	C1HLEM105A	ELECT 1μF 50V M
C237	C1ALEM476A	ELECT 47μF 10V M
C238	C1HYDZ223F	CERAM 0.022μF 50V Z
C239	C1HLEM105A	ELECT 1μF 50V M
C241	C1HLEM105A	ELECT 1μF 50V M

Schematic Location	Part No.	Description
C242	C1HYDZ223F	CERAM 0.022μF 50V Z
C243	C1HYDZ473F	CERAM 0.047μF 50V Z
C244	C1CLEM106A	ELECT 10μF 16V M
C245	C1HYDZ223F	CERAM 0.022μF 50V Z
C246	C1CLEM106A	ELECT 10μF 16V M
C247	C1HLEM105A	ELECT 1μF 50V M
C248	C1HYDZ223F	CERAM 0.022μF 50V Z
C249	C1HYDZ223F	CERAM 0.022μF 50V Z
C250	C1ALEM476A	ELECT 47μF 10V M
C251	C1CLEM106A	ELECT 10μF 16V M
C252	C1EBDK103SR	SEMI 0.01μF 25V K
C253	C1HCDJ271SL	CERAM 270pF 50V J
C254	C1HCDJ101SL	CERAM 100pF 50V J
C255	C1ELEM475A	ELECT 4.7μF 25V M
C256	C1HCDJ820CH	CERAM 82pF 50V J
C257	C1EBDK333SR	SEMI 0.033μF 25V K
C259	C1HYDZ223F	CERAM 0.022μF 50V Z
C261	C1ALEM476A	ELECT 47μF 10V M
C262	C1EBDK223SR	SEMI 0.022μF 25V K
C263	C1HYDZ473F	CERAM 0.047μF 50V Z
C264	C1ALEM227A	ELECT 220μF 10V M
C265	C1ELEM475A	ELECT 4.7μF 25V M
C266	C1CLEM106A	ELECT 10μF 16V M
C267	C1HLEM335A	ELECT 3.3μF 50V M
C268	C1HCDJ221SL	CERAM 220pF 50V J
C269	C1ELEM475A	ELECT 4.7μF 25V M
C271	C1HCDJ390SL	CERAM 39pF 50V J
C272	C1HCDJ151SL	CERAM 150pF 50V J
C273	C1HCDJ101SL	CERAM 100pF 50V J
C274	C1CLEM226A	ELECT 22μF 16V M
C275	C1HCDJ221SL	CERAM 220pF 50V J
C276	C1HYDK682B	CERAM 0.0068μF 50V K
C278	C1HLEM105A	ELECT 1μF 50V M
C279	C1EBDK104SR	SEMI 0.1μF 25V K
C281	C1EBDK104SR	SEMI 0.1μF 25V K
C282	C1HCDJ560SL	CERAM 56pF 50V J
C283	C1HCDJ181SL	CERAM 180pF 50V J
C284	C1HYDZ103F	CERAM 0.01μF 50V Z
C285	C1HCDJ180SL	CERAM 18pF 50V J
C286	C1HCDJ471SL	CERAM 470pF 50V J
C287	C1HCDJ331SL	CERAM 330pF 50V J

Schematic Location	Part No.	Description
C289	C1ALEM476A	ELECT 47μF 10V M
C296	C1HYDZ223F	CERAM 0.022μF 50V Z
C297	C1ALEM107A	ELECT 100μF 10V M
C298	C1HYDZ473F	CERAM 0.047μF 50V Z
C299	C1ALEM107A	ELECT 100μF 10V M
C301	C1HCDJ271SL	CERAM 270pF 50V J
C302	C1ALEM476A	ELECT 47μF 10V M
C303	C1HCDJ220SL	CERAM 22pF 50V J
C304	C1ALEM476A	ELECT 47μF 10V M
C305	C1HCDJ181SL	CERAM 180pF 50V J
C306	C1HLEM105A	ELECT 1μF 50V M
C307	C1HCDJ471SL	CERAM 470pF 50V J
C308	C1HCDJ820SL	CERAM 82pF 50V J
C309	C1HYDZ103F	CERAM 0.01μF 50V Z
C311	C1HYDZ103F	CERAM 0.01μF 50V Z
C312	C1ALEM107A	ELECT 100μF 10V M
C313	C0JLEM477A	ELECT 470μF 6.3V M
C314	C1HYDZ223F	CERAM 0.022μF 50V Z
C315	C0JLEM108A	ELECT 1000μF 6.3V M
C316	C1ALEM476A	ELECT 47μF 10V M
C317	C1ALEM476A	ELECT 47μF 10V M
C319	C1HYDZ223F	CERAM 0.022μF 50V Z
C320	C1ALEM476A	ELECT 47μF 10V M
C321	C1CLEM476A	ELECT 47μF 16V M
C322	C1HYDZ223F	CERAM 0.022μF 50V Z
C323	C1ALEM227A	ELECT 220μF 10V M
C324	C1HYDZ223F	CERAM 0.022μF 50V Z
C325	C1HYDK102B	CERAM 0.001μF 50V K
C326	C1HFRK103A	MYLAR 0.01μF 50V K
C327	C1HYDK821B	CERAM 820pF 50V K
C328	C1HYDK472B	CERAM 0.0047μF 50V K
C329	C1HYDZ223F	CERAM 0.022μF 50V Z
C331	C1HLEM105A	ELECT 1μF 50V M
C332	C1EBDK223SR	SEMI 0.022μF 25V K
C333	C1EBDK223SR	SEMI 0.022μF 25V K
C334	C1ELEM475A	ELECT 4.7μF 25V M
C335	C1EBDK223SR	SEMI 0.022μF 25V K
C336	C1HYDZ103F	CERAM 0.01μF 50V Z
C337	C1HYDZ223F	CERAM 0.022μF 50V Z
C338	C1ALEM107A	ELECT 100μF 10V M
C339	C1HYDZ103F	CERAM 0.01μF 50V Z
C340	C1ALEM476A	ELECT 47μF 10V M
C341	C1EUEK224A	ALSIC 0.22μF 25V K
C342	C1EUEK154A	ALSIC 0.15μF 25V K
C343	C1HYDZ223F	CERAM 0.022μF 50V Z
C344	C1EBDK223SR	SEMI 0.022μF 25V K
C345	C1HYDZ103F	CERAM 0.01μF 50V Z
C346	C1HYDZ103F	CERAM 0.01μF 50V Z
C347	C1HYDZ103F	CERAM 0.01μF 50V Z
C348	C1HCDJ820CH	CERAM 82pF 50V J
C349	C1HCDJ220CH	CERAM 22pF 50V J
C350	C1ELEM475A	ELECT 4.7μF 25V M
C351	C1HCDJ220CH	CERAM 22pF 50V J
C352	C1EBDK473SR	SEMI 0.047μF 25V K
C353	C1ELEM475A	ELECT 4.7μF 25V M
C354	C1EUEK334A	ALSIC 0.33μF 25V K
C355	C1HLEM335A	ELECT 3.3μF 50V M
C356	C1CLEM336A	ELECT 33μF 16V M
C357	C1HYDK391B	CERAM 390pF 50V K
C358	C1HYDK332B	CERAM 0.0033μF 50V K
C359	C1EBDK103SR	SEMI 0.01μF 25V K
C360	C1EBDK103SR	SEMI 0.01μF 25V K
C361	C1EUEK224A	ALSIC 0.22μF 25V K
C362	C1HYDZ223F	CERAM 0.022μF 50V Z
C363	C1HCDJ220SL	CERAM 22pF 50V J
C364	C1HYDK681B	CERAM 680pF 50V K
C365	C1HCDJ391SL	CERAM 390pF 50V J
C366	C1EBDK103SR	SEMI 0.01μF 25V K
C367	C1HYDK222B	CERAM 0.0022μF 50V K
C368	C1HYDK561B	CERAM 560pF 50V K

Schematic Location	Part No.	Description
C369	C1HYDZ223F	CERAM 0.022μF 50V Z
C370	C1HYDK681B	CERAM 680pF 50V K
C371	C1EBDK333SR	SEMI 0.033μF 25V K
C373	C1HCDD7R0CH	CERAM 7pF 50V J
C374	4-2244-00020	TRIMMER CON 20P
C375	C1HYDK102B	CERAM 0.001μF 50V K
C376	C1HYDK102B	CERAM 0.001μF 50V K
C377	C1CLEM106A	ELECT 10μF 16V M
C378	C1HCDJ470CH	CERAM 47pF 50V J
C379	C1EBDK473SR	SEMI 0.047μF 25V K
C382	C1HCDJ220CH	CERAM 22pF 50V J
C383	C1HCDJ101CH	CERAM 100pF 50V J
C385	C1HCDJ680CH	CERAM 68pF 50V J
C386	C1HCDJ220CH	CERAM 22pF 50V J
		(DIODES)
D201	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D203	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D208	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D209	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D210	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D211	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D212	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D213	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D214	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D215	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D216	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
DL201	4-2844-00060	DELAY LINE
DL202	4-2844-00040	DELAY LINE
		(ICS)
IC201	IHHA11744	IC HA11744
IC202	IHHA11745	IC HA11745
IC203	IHHA11781ANT	IC HA11781ANT
IC204	IWM51454L	IC M51454L
IC205	IYBA7100	IC BA7100
		(COILS)
L200	4-2724-U100K	INDUCTOR 10μH
L201	4-2724-U8R2K	INDUCTOR 8.2μH
L202	4-2724-U8R2K	INDUCTOR 8.2μH
L203	4-2724-U390K	INDUCTOR 39μH
L204	4-2724-U560K	INDUCTOR 56μH
L205	4-2724-E151K	INDUCTOR 150μH
L206	4-2724-U390K	INDUCTOR 39μH
L207	4-2724-U221K	INDUCTOR 220μH
L208	4-2724-E270K	INDUCTOR 27μH
L209	4-2724-U221K	INDUCTOR 220μH
L210	4-2724-U101K	INDUCTOR 100μH
L211	4-2724-E471K	INDUCTOR 470μH
L212	4-2724-U470K	INDUCTOR 47μH
L214	4-2724-U470K	INDUCTOR 47μH
L216	4-2724-U390K	INDUCTOR 39μH
L217	4-2724-U100K	INDUCTOR 10μH
L218	4-2724-U390K	INDUCTOR 39μH
L219	4-2724-U390K	INDUCTOR 39μH

Schematic Location	Part No.	Description
L220	4-2724-U221K	INDUCTOR 220μH
L221	4-2724-U221K	INDUCTOR 220μH
L222	4-2724-U221K	INDUCTOR 220μH
L223	4-2724-U221K	INDUCTOR 220μH
L224	4-2724-U221K	INDUCTOR 220μH
L225	4-2724-U221K	INDUCTOR 220μH
L226	4-2724-U221K	INDUCTOR 220μH
L227	4-2724-E821K	INDUCTOR 820μH
L228	4-2724-U101K	INDUCTOR 100μH
L229	4-2724-U270K	INDUCTOR 27μH
L230	4-2724-E331K	INDUCTOR 330μH
L231	4-2554-00060	INDUCTOR 12MH
L232	4-2554-00070	INDUCTOR 15MH
L233	4-2724-U221K	INDUCTOR 220μH
L235	4-2724-Z6R8K	INDUCTOR 6.8μH
L236	4-2724-Z180K	INDUCTOR 18μH
L241	4-2724-U390K	INDUCTOR 39μH
L251	4-2594-00040	TRAP COIL
L252	4-2534-00070	1.4M HIGH PASS FILTER
L253	4-2534-00100	DELAY EQUALIZER
L254	4-2534-00090	3.5M LOW PASS FILTER
L255	4-2534-00100	DELAY EQUALIZER
L256	4-2534-00090	3.5M LOW PASS FILTER
L257	4-2534-00250	1.5M C-LOW PASS FILTER
L258	4-2534-00260	5.06M BAND PASS FILTER
L259	4-2534-00130	4.43M BAND PASS FILTER
L260	4-2534-00080	1.5M LOW PASS FILTER
L261	4-2534-00240	RF RELAY EQUALIZER
		(PLUGS)
PV201	4-2364-00260	6P PLUG VERTICAL
PV202	4-2364-00250	5P PLUG VERTICAL
PV203	4-2364-00240	4P PLUG VERTICAL
PV204	4-2364-00240	4P PLUG VERTICAL
PV205	4-2364-00230	3P PLUG VERTICAL
PV206	4-2364-00290	9P PLUG VERTICAL
PV207	4-2364-00220	2P PLUG VERTICAL
PV208	4-2364-00220	2P PLUG VERTICAL
PV209	4-2364-00220	2P PLUG VERTICAL
		(TRANSISTORS)
Q201	TG2SA608SP	TR 2SA608SP(F) or (G)
Q203	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q204	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q205	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q206	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q207	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q208	TG2SC2274	TR 2SC2274(E) or (F)
or	TN2SC2002	TR 2SC2002(K) or (L)
Q209	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q211	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q212	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q213	TG2SA608SP	TR 2SA608SP(F) or (G)
Q215	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q222	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q223	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q224	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q225	TG2SC2274	TR 2SC2274(E) or (F)
or	TN2SC2002	TR 2SC2002(K) or (L)

Schematic Location	Part No.	Description
Q226	TG2SC2274	TR 2SC2274(E) or (F)
or	TN2SC2002	TR 2SC2002(K) or (L)
Q227	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q228	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q229	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q230	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q231	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q232	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q233	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q234	TG2SA608SP	TR 2SA608SP(F) or (G)
Q235	TG2SA608SP	TR 2SA608SP(F) or (G)
Q236	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q237	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q238	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q239	TYDTC124N	TR DTC124N
Q241	TG2SC3400	TR 2SC3400
or	TYDTC124N	TR DTC124N
Q242	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q243	TG2SC3400	TR 2SC3400
or	TYDTC124N	TR DTC124N
Q244	TG2SC536SP	TR 2SC536SP(F)or(G)
or	TN2SC945	TR 2SC945(K)or(P)
		(RESISTORS)
R200	R2ESPJ102A	CARBO 1k 1/4W J
R2000	R2ESPJ123A	CARBO 12k 1/4W J
R2001	R2ESPJ102A	CARBO 1k 1/4W J
R2002	R2ESPJ102A	CARBO 1k 1/4W J
R2003	R2ESPJ122A	CARBO 1.2k 1/4W J
R2004	R2ESPJ152A	CARBO 1.5k 1/4W J
R2005	R2ESPJ221A	CARBO 220 1/4W J
R2006	R2ESPJ564A	CARBO 560k 1/4W J
R2007	R2ESPJ182A	CARBO 1.8k 1/4W J
R2008	R2ESPJ222A	CARBO 2.2k 1/4W J
R2009	R2ESPJ222A	CARBO 2.2k 1/4W J
R201	R2ESPJ222A	CARBO 2.2k 1/4W J
R2010	R2ESPJ682A	CARBO 6.8k 1/4W J
R2011	R2ESPJ103A	CARBO 10k 1/4W J
R2012	R2ESPJ103A	CARBO 10k 1/4W J
R2013	R2ESPJ332A	CARBO 3.3k 1/4W J
R2014	R2ESPJ123A	CARBO 12k 1/4W J
R2015	R2ESPJ472A	CARBO 4.7k 1/4W J
R2016	R2ESPJ274A	CARBO 270k 1/4W J
R2017	R2ESPJ333A	CARBO 33k 1/4W J
R2018	R2ESPJ821A	CARBO 820 1/4W J
R2019	R2ESPJ472A	CARBO 4.7k 1/4W J
R202	R2ESPJ221A	CARBO 220 1/4W J
R2021	R2ESPJ122A	CARBO 1.2k 1/4W J
R2022	R2ESPJ681A	CARBO 680 1/4W J
R2023	R2ESPJ562A	CARBO 5.6k 1/4W J
R2024	R2ESPJ123A	CARBO 12k 1/4W J
R2025	R2ESPJ472A	CARBO 4.7k 1/4W J
R2026	R2ESPJ562A	CARBO 5.6k 1/4W J
R2027	R2ESPJ182A	CARBO 1.8k 1/4W J
R2028	R2ESPJ820A	CARBO 82 1/4W J
R203	R2ESPJ392A	CARBO 3.9k 1/4W J
R2030	R2ESPJ102A	CARBO 1k 1/4W J
R2031	R2ESPJ102A	CARBO 1k 1/4W J
R2032	R2ESPJ122A	CARBO 1.2k 1/4W J

Schematic Location	Part No.	Description
R2033	R2ESPJ471A	CARBO 470 1/4W J
R2034	R2ESPJ471A	CARBO 470 1/4W J
R2035	R2ESPJ471A	CARBO 470 1/4W J
R2036	R2ESPJ103A	CARBO 10k 1/4W J
R2037	R2ESPJ562A	CARBO 5.6k 1/4W J
R2038	R2ESPJ332A	CARBO 3.3k 1/4W J
R2039	R2ESPJ391A	CARBO 390 1/4W J
R2041	R2ESPJ392A	CARBO 3.9k 1/4W J
R2042	R2ESPJ331A	CARBO 330 1/4W J
R2043	R2ESPJ102A	CARBO 1k 1/4W J
R2044	R2ESPJ333A	CARBO 33k 1/4W J
R2045	R2ESPJ823A	CARBO 82k 1/4W J
R2046	R2ESPJ104A	CARBO 100k 1/4W J
R2047	R2ESPJ472A	CARBO 4.7k 1/4W J
R2048	R2ESPJ122A	CARBO 1.2k 1/4W J
R2049	R2ESPJ102A	CARBO 1k 1/4W J
R205	R2ESPJ103A	CARBO 10k 1/4W J
R2050	R2ESPJ562A	CARBO 5.6k 1/4W J
R2051	R2ESPJ182A	CARBO 1.8k 1/4W J
R2052	R2ESPJ562A	CARBO 5.6k 1/4W J
R2053	R2ESPJ101A	CARBO 100 1/4W J
R2054	R2ESPJ221A	CARBO 220 1/4W J
R2055	R2ESPJ273A	CARBO 27k 1/4W J
R2056	R2ESPJ472A	CARBO 4.7k 1/4W J
R2057	R2ESPJ392A	CARBO 3.9k 1/4W J
R2058	R2ESPJ681A	CARBO 680 1/4W J
R2059	R2ESPJ561A	CARBO 560 1/4W J
R206	R2ESPJ561A	CARBO 560 1/4W J
R2060	R2ESPJ333A	CARBO 33k 1/4W J
R2061	R2ESPJ822A	CARBO 8.2k 1/4W J
R2062	R2ESPJ272A	CARBO 2.7k 1/4W J
R2063	R2ESPJ182A	CARBO 1.8k 1/4W J
R2064	R2ESPJ331A	CARBO 330 1/4W J
R2065	R2ESPJ273A	CARBO 27k 1/4W J
R2066	R2ESPJ682A	CARBO 6.8k 1/4W J
R2067	R2ESPJ471A	CARBO 470 1/4W J
R2068	R2ESPJ331A	CARBO 330 1/4W J
R2069	R2ESPJ102A	CARBO 1k 1/4W J
R207	R2ESPJ272A	CARBO 2.7k 1/4W J
R2070	R2ESPJ562A	CARBO 5.6k 1/4W J
R2071	R2ESPJ123A	CARBO 12k 1/4W J
R2072	R2ESPJ121A	CARBO 120 1/4W J
R2073	R2ESPJ103A	CARBO 10k 1/4W J
R2074	R2ESPJ332A	CARBO 3.3k 1/4W J
R2075	R2ESPJ333A	CARBO 33k 1/4W J
R2076	R2ESPJ103A	CARBO 10k 1/4W J
R2077	R2ESPJ392A	CARBO 3.9k 1/4W J
R2078	R2ESPJ823A	CARBO 82k 1/4W J
R2079	R2ESPJ103A	CARBO 10k 1/4W J
R208	R2ESPJ332A	CARBO 3.3k 1/4W J
R2081	R2ESPJ391A	CARBO 390 1/4W J
R2082	R2ESPJ471A	CARBO 470 1/4W J
R2083	R2ESPJ103A	CARBO 10k 1/4W J
R2084	R2ESPJ103A	CARBO 10k 1/4W J
R2085	R2ESPJ103A	CARBO 10k 1/4W J
R2086	R2ESPJ103A	CARBO 10k 1/4W J
R2087	R2ESPJ223A	CARBO 22k 1/4W J
R209	R2ESPJ103A	CARBO 10k 1/4W J
R210	R2ESPJ821A	CARBO 820 1/4W J
R211	R2ESPJ392A	CARBO 3.9k 1/4W J
R212	R2ESPJ102A	CARBO 1k 1/4W J
R213	R2ESPJ332A	CARBO 390 1/4W J
R215	R2ESPJ123A	CARBO 12k 1/4W J
R216	R2ESPJ471A	CARBO 470 1/4W J
R217	R2ESPJ392A	CARBO 3.9k 1/4W J
R218	R2ESPJ471A	CARBO 470 1/4W J
R219	R2ESPJ391A	CARBO 390 1/4W J
R220	R2ESPJ681A	CARBO 680 1/4W J
R221	R2ESPJ391A	CARBO 390 1/4W J
R222	R2ESPJ821A	CARBO 820 1/4W J
R223	R2ESPJ102A	CARBO 1k 1/4W J

Schematic Location	Part No.	Description
R224	R2ESPJ471A	CARBO 470 1/4W J
R225	R2ESPJ103A	CARBO 10k 1/4W J
R226	R2ESPJ121A	CARBO 120 1/4W J
R227	R2ESPJ102A	CARBO 1k 1/4W J
R228	R2ESPJ123A	CARBO 12k 1/4W J
R229	R2ESPJ472A	CARBO 4.7k 1/4W J
R230	R2ESPJ152A	CARBO 1.5k 1/4W J
R231	R2ESPJ102A	CARBO 1k 1/4W J
R234	R2ESPJ822A	CARBO 8.2k 1/4W J
R235	R2ESPJ182A	CARBO 1.8k 1/4W J
R236	R2ESPJ563A	CARBO 56k 1/4W J
R237	R2ESPJ472A	CARBO 4.7k 1/4W J
R238	R2ESPJ332A	CARBO 3.3k 1/4W J
R239	R2ESPJ272A	CARBO 2.7k 1/4W J
R241	R2ESPJ472A	CARBO 4.7k 1/4W J
R242	R2ESPJ154A	CARBO 150k 1/4W J
R243	R2ESPJ154A	CARBO 150k 1/4W J
R244	R2ESPJ122A	CARBO 1.2k 1/4W J
R245	R2ESPJ221A	CARBO 220 1/4W J
R246	R2ESPJ562A	CARBO 5.6k 1/4W J
R247	R2ESPJ562A	CARBO 5.6k 1/4W J
R248	R2ESPJ681A	CARBO 680 1/4W J
R249	R2ESPJ681A	CARBO 680 1/4W J
R251	R2ESPJ220A	CARBO 22 1/4W J
R252	R2ESPJ101A	CARBO 100 1/4W J
R253	R2ESPJ222A	CARBO 2.2k 1/4W J
R254	R2ESPJ101A	CARBO 100 1/4W J
R255	R2ESPJ683A	CARBO 68k 1/4W J
R256	R2ESPJ393A	CARBO 39k 1/4W J
R258	R2ESPJ563A	CARBO 56k 1/4W J
R259	R2ESPJ223A	CARBO 22k 1/4W J
R260	R2ESPJ332A	CARBO 3.3k 1/4W J
R261	R2ESPJ471A	CARBO 470 1/4W J
R262	R2ESPJ471A	CARBO 470 1/4W J
R263	R2ESPJ471A	CARBO 470 1/4W J
R264	R2ESPJ121A	CARBO 120 1/4W J
R265	R2ESPJ471A	CARBO 470 1/4W J
R266	R2ESPJ103A	CARBO 10k 1/4W J
R267	R2ESPJ332A	CARBO 3.3k 1/4W J
R268	R2ESPJ332A	CARBO 3.3k 1/4W J
R269	R2ESPJ561A	CARBO 560 1/4W J
R271	R2ESPJ221A	CARBO 220 1/4W J
R272	R2ESPJ332A	CARBO 3.3k 1/4W J
R273	R2ESPJ332A	CARBO 3.3k 1/4W J
R274	R2ESPJ100A	CARBO 10 1/4W J
R275	R2ESPJ100A	CARBO 10 1/4W J
R281	R2ESPJ182A	CARBO 1.8k 1/4W J
R282	R2ESPJ101A	CARBO 100 1/4W J
R283	R2ESPJ681A	CARBO 680 1/4W J
R284	R2ESPJ222A	CARBO 2.2k 1/4W J
R285	R2ESPJ122A	CARBO 1.2k 1/4W J
R286	R2ESPJ222A	CARBO 2.2k 1/4W J
R288	R2ESPJ183A	CARBO 18k 1/4W J
R289	R2ESPJ102A	CARBO 1k 1/4W J
R290	R2ESPJ562A	CARBO 5.6k 1/4W J
R291	R2ESPJ221A	CARBO 220 1/4W J
R292	R2ESPJ273A	CARBO 27k 1/4W J
R293	R2ESPJ681A	CARBO 680 1/4W J
R294	R2ESPJ683A	CARBO 68k 1/4W J
R296	R2ESPJ222A	CARBO 2.2k 1/4W J
R297	R2ESPJ681A	CARBO 680 1/4W J
R298	R2ESPJ272A	CARBO 2.7k 1/4W J
R299	R2CDPJ155A	CARBO 1.5M 1/6W J
R301	R2ESPJ103A	CARBO 10k 1/4W J
R302	R2ESPJ102A	CARBO 1k 1/4W J
R303	R2ESPJ153A	CARBO 15k 1/4W J
R304	R2ESPJ224A	CARBO 220k 1/4W J
R305	R2ESPJ394A	CARBO 390k 1/4W J
R306	R2ESPJ392A	CARBO 3.9k 1/4W J
R307	R2ESPJ182A	CARBO 1.8k 1/4W J

Schematic Location	Part No.	Description
R308	R2ESPJ562A	CARBO 5.6k 1/4W J
R309	R2ESPJ182A	CARBO 1.8k 1/4W J
R311	R2ESPJ562A	CARBO 5.6k 1/4W J
R312	R2ESPJ332A	CARBO 3.3k 1/4W J
R313	R2ESPJ184A	CARBO 180k 1/4W J
R314	R2ESPJ471A	CARBO 470 1/4W J
R315	R2ESPJ471A	CARBO 470 1/4W J
R336	R2ESPJ103A	CARBO 10k 1/4W J
R337	R2ESPJ471A	CARBO 470 1/4W J
R338	R2ESPJ471A	CARBO 470 1/4W J
R339	R2ESPJ151A	CARBO 150 1/4W J
R341	R2ESPJ102A	CARBO 1k 1/4W J
R342	R2ESPJ182A	CARBO 1.8k 1/4W J
R343	R2ESPJ152A	CARBO 1.5k 1/4W J
R344	R2ESPJ391A	CARBO 390 1/4W J
R345	R2ESPJ681A	CARBO 680 1/4W J
R346	R2ESPJ821A	CARBO 820 1/4W J
R347	R2ESPJ681A	CARBO 680 1/4W J
R348	R2ESPJ222A	CARBO 2.2k 1/4W J
R349	R2ESPJ152A	CARBO 1.5k 1/4W J
R351	R2ESPJ821A	CARBO 820 1/4W J
R352	R2ESPJ331A	CARBO 330 1/4W J
R353	R2ESPJ392A	CARBO 3.9k 1/4W J
R354	R2ESPJ182A	CARBO 1.8k 1/4W J
R355	R2ESPJ151A	CARBO 150 1/4W J
R356	R2ESPJ680A	CARBO 68 1/4W J
R357	R2ESPJ100A	CARBO 10 1/4W J
R358	R2ESPJ151A	CARBO 150 1/4W J
R359	R2ESPJ560A	CARBO 56 1/4W J
R360	R2ESPJ750A	CARBO 75 1/4W J
R361	R2ESPJ103A	CARBO 10k 1/4W J
R362	R2ESPJ333A	CARBO 33k 1/4W J
R365	R2ESPJ122A	CARBO 1.2k 1/4W J
R366	R2ESPJ392A	CARBO 3.9k 1/4W J
		(SWITCHS)
SW201	4-2314-00290	SLIDE SW 4-2
SW202	4-2314-00280	SLIDE SW 2-3
		(PINS)
TP201	4-2374-00030	TEST POINT PIN
TP202	4-2374-00030	TEST POINT PIN
TP203	4-2374-00030	TEST POINT PIN
TP204	4-2374-00030	TEST POINT PIN
TP205	4-2374-00030	TEST POINT PIN
TP206	4-2374-00030	TEST POINT PIN
TP207	4-2374-00030	TEST POINT PIN
TP208	4-2374-00030	TEST POINT PIN
TP209	4-2374-00030	TEST POINT PIN
TP210	4-2374-00030	TEST POINT PIN
TP211	4-2374-00030	TEST POINT PIN
TP212	4-2374-00030	TEST POINT PIN
TP213	4-2374-00030	TEST POINT PIN
TP214	4-2374-00030	TEST POINT PIN
TP215	4-2374-00030	TEST POINT PIN
TP216	4-2374-00030	TEST POINT PIN
TP217	4-2374-00030	TEST POINT PIN
TP220	4-2374-00030	TEST POINT PIN
TP221	4-2374-00030	TEST POINT PIN
TP222	4-2374-00030	TEST POINT PIN
TP223	4-2374-00030	TEST POINT PIN
		(VARIABLE RESISTORS)
VR201	4-2224-00670	SEMI 10kB
VR202	4-2224-00430	SEMI 4.7kB
VR203	4-2224-00670	SEMI 10kB
VR204	4-2224-00670	SEMI 10kB
VR205	4-2224-00630	SEMI 1.5kB
VR206	4-2224-00610	SEMI 470B
VR207	4-2224-00430	SEMI 4.7kB
VR208	4-2224-00430	SEMI 4.7kB
VR209	4-2224-00670	SEMI 10kB
VR210	4-2224-00690	SEMI 22kB
VR211	4-2224-00670	SEMI 10kB
VR212	4-2224-00430	SEMI 4.7kB
VR214	4-2224-00640	SEMI 2.2kB
VR215	4-2224-00620	SEMI 1kB
X201	4-2254-00050	4.435M CRYSTAL
or	4-2254-00051	4.435M CRYSTAL
X202	4-2254-00040	4.433M CRYSTAL
or	4-2254-00041	4.433M CRYSTAL
	143-2-3504-02200	SHIELD CASE TOP HAB

AUDIO CIRCUIT PARTS

Schematic Location	Part No.	Description
	0-4014-01100	AUDIO PC ASSY
		(CAPACITORS)
C401	C1ALEM107A	ELECT 100μF 10V M
C402	C1HLEM225A	ELECT 2.2μF 50V M
C403	C1HLEM474A	ELECT 0.47μF 50V M
C404	C1CLEM106A	ELECT 10μF 16V M
C405	C1ELEM475A	ELECT 4.7μF 25V M
C406	C1ALEM476A	ELECT 47μF 10V M
C407	C1ALEM226A	ELECT 22μF 10V M
C408	C1ELEM475A	ELECT 4.7μF 25V M
C409	C1ELEM475A	ELECT 4.7μF 25V M
C411	C1ALEM476A	ELECT 47μF 10V M
C412	C1ELEM475A	ELECT 4.7μF 25V M
C413	C1HFRJ822A	MYLAR 0.0082μF 50V J
C414	C1ALEM476A	ELECT 47μF 10V M
C415	C1HFRK682A	MYLAR 0.0068μF 50V K
C416	C1HFRK472A	MYLAR 0.0047μF 50V K
C417	C2AQRJ473A	PPCON 0.047μF 100V J
C418	C1HYDK152B	CERAM 0.0015μF 50V K
C419	C1HLEM105A	ELECT 1μF 50V M
C421	C1HFRJ392A	MYLAR 0.0039μF 50V K
C422	C1ALEM107A	ELECT 100μF 10V M
C423	C1HLEM105A	ELECT 1μF 50V M
C424	C1HYDK221B	CERAM 220pF 50V K
C425	C1ELEM475A	ELECT 4.7μF 25V M
C426	C1HFRJ183A	MYLAR 0.018μF 50V J
C427	C1CLEM106A	ELECT 10μF 16V M
C428	C1ALEM226A	ELECT 22μF 10V M
C429	C1HFRJ102A	MYLAR 0.001μF 50V J
C431	C1HYDK821B	CERAM 820pF 50V K
C432	C1HFRK103A	MYLAR 0.01μF 50V K
C481	C1HLEM105A	ELECT 1μF 50V M
C482	C1CLEM106A	ELECT 10μF 16V M
C483	C1ALEM107A	ELECT 100μF 10V M
C490	C1ALEM336A	ELECT 33μF 10V M
		(DIODES)
D401	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D402	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D403	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D404	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D405	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D406	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
		(ICS)
IC401	IGLA7042	IC LA7042

Schematic Location	Part No.	Description
		(COILS)
L401	4-2554-00090	INDUCTOR 22MH
L402	4-2594-00070	HOR. FREQ. TRAP COIL
L404	4-2724-E101K	INDUCTOR 100μH
L405	4-2594-00050	70KHz TRAP COIL
		(PLUGS)
PV401	4-2364-00230	3P PLUG VERTICAL
PV402	4-2364-00220	2P PLUG VERTICAL
PV403	4-2364-00230	3P PLUG VERTICAL
PV404	4-2364-00220	2P PLUG VERTICAL
PV405	4-2364-00230	3P PLUG VERTICAL
PV406	4-2364-00230	3P PLUG VERTICAL
PV480	4-2364-00020	2P PLUG VERTICAL
		(TRANSISTORS)
Q401	TG2SA608SP	TR 2SA608SP(F) or (G)
Q402	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q403	TG2SD734	TR 2SD734(F) or (G)
Q404	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q405	TG2SD734	TR 2SD734(F) or (G)
Q406	TG2SA1016	TR 2SA1016(F) or (G)
Q407	TN2SC1845	TR 2SC1845(E) or (U)
Q408	TN2SC1845	TR 2SC1845(E) or (U)
Q481	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q482	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
		(RESISTORS)
R400 ⚠	R2EZPJ100A	FUSE 10 1/4W J
R401	R2ESPJ473A	CARBO 47k 1/4W J
R402	R2ESPJ332A	CARBO 3.3k 1/4W J
R403	R2ESPJ153A	CARBO 15k 1/4W J
R404	R2ESPJ152A	CARBO 1.5k 1/4W J
R405	R2ESPJ273A	CARBO 27k 1/4W J
R406	R2ESPJ394A	CARBO 390k 1/4W J
R407	R2ESPJ103A	CARBO 10k 1/4W J
R408	R2ESPJ333A	CARBO 33k 1/4W J
R409	R2CDPJ225A	CARBO 2.2M 1/6W J
R410	R2ESPJ154A	CARBO 150k 1/4W J
R411	R2ESPJ102A	CARBO 1k 1/4W J
R412	R2ESPJ272A	CARBO 2.7k 1/4W J
R413	R2ESPJ104A	CARBO 100k 1/4W J
R414	R2ESPJ103A	CARBO 10k 1/4W J
R415	R2ESPJ103A	CARBO 10k 1/4W J
R416	R2ESPJ103A	CARBO 10k 1/4W J
R417	R2ESPJ122A	CARBO 1.2k 1/4W J
R418	R2ESPJ471A	CARBO 470 1/4W J
R419	R2ESPJ472A	CARBO 4.7k 1/4W J
R420	R2ESPJ121A	CARBO 120 1/4W J
R421	R2ESPJ183A	CARBO 18k 1/4W J
R422	R2ESPJ102A	CARBO 1k 1/4W J
R423	R2ESPJ471A	CARBO 470 1/4W J
R424	R2ESPJ333A	CARBO 33k 1/4W J
R425	R2ESPJ153A	CARBO 15k 1/4W J
R426	R2ESPJ4R7A	CARBO 4.7 1/4W J
R427	R2ESPJ470A	CARBO 47 1/4W J
R428	R2ESPJ563A	CARBO 56k 1/4W J
R429	R2ESPJ822A	CARBO 8.2k 1/4W J
R431	R2ESPJ100A	CARBO 10 1/4W J
R432	R2ESPJ183A	CARBO 18k 1/4W J
R433	R2ESPJ332A	CARBO 3.3k 1/4W J
R434	R2ESPJ682A	CARBO 6.8k 1/4W J
R435	R2ESPJ184A	CARBO 180k 1/4W J
R436	R2ESPJ560A	CARBO 56 1/4W J
R437	R2ESPJ221A	CARBO 220 1/4W J
R438	R2ESPJ563A	CARBO 56k 1/4W J
R439	R2ESPJ332A	CARBO 3.3k 1/4W J
R441	R2ESPJ103A	CARBO 10k 1/4W J
R442	R2ESPJ103A	CARBO 10k 1/4W J
R443	R2ESPJ333A	CARBO 33k 1/4W J
R444	R2ESPJ272A	CARBO 2.7k 1/4W J
R445	R2ESPJ100A	CARBO 10 1/4W J
R481	R2ESPJ223A	CARBO 22k 1/4W J
R482	R2ESPJ333A	CARBO 33k 1/4W J
R483	R2ESPJ103A	CARBO 10k 1/4W J
R484	R2ESPJ103A	CARBO 10k 1/4W J
R485	R2ESPJ273A	CARBO 27k 1/4W J
R486	R2ESPJ473A	CARBO 47k 1/4W J
R487	R2ESPJ683A	CARBO 68k 1/4W J
R488	R2ESPJ102A	CARBO 1k 1/4W J
R489	R2ESPJ332A	CARBO 3.3k 1/4W J
R490	R2ESPJ102A	CARBO 1k 1/4W J
T401	4-2584-00110	70KHz OSC TRANSFORMER
		(PINS)
TP401	4-2374-00030	TEST POINT PIN
TP402	4-2374-00030	TEST POINT PIN
TP403	4-2374-00030	TEST POINT PIN
TP404	4-2374-00030	TEST POINT PIN
TP405	4-2374-00030	TEST POINT PIN
TP406	4-2374-00030	TEST POINT PIN
TP407	4-2374-00030	TEST POINT PIN
TP408	4-2374-00030	TEST POINT PIN
		(VARIABLE RESISTORS)
VR401	4-2224-00690	SEMI 22kB
VR402	4-2224-00600	SEMI 220kB
VR403	4-2224-00470	SEMI 220kB

SYSTEM CONTROL SERVO P.C.B. PARTS

Schematic Location	Part No	Description
	0-4014-01112	SYSCON SERVO PC ASSY
		(CAPACITORS)
C501	C1ALEM477A	ELECT 470μF 10V M
C502	C1HYDZ223F	CERAM 0.022μF 50V Z
C503	C1HYDZ223F	CERAM 0.022μF 50V Z
C504	C1CLEM227A	ELECT 220μF 16V M
C505	C1EBDK473SR	SEMI 0.047μF 25V K
C507	C1EBDK473SR	SEMI 0.047μF 25V K
C508	C1HYDZ103F	CERAM 0.01μF 50V Z
C509	C1HYDZ103F	CERAM 0.01μF 50V Z
C511	C1EBDK473SR	SEMI 0.047μF 25V K
C512	C1HYDK102B	CERAM 0.001μF 50V K
C514	C1CLEM226A	ELECT 22μF 16V M
C515	C1HYDK221B	CERAM 220pF 50V K
C516	C1HYDK221B	CERAM 220pF 50V K
C517	C1HYDZ103F	CERAM 0.01μF 50V Z
C518	C1EBDK473SR	SEMI 0.047μF 25V K
C519	C1CLEM226A	ELECT 22μF 16V M
C521	C1HLEM105A	ELECT 1μF 50V M
C523	C1HYDZ103F	CERAM 0.01μF 50V Z
C524	C1CLEM226A	ELECT 22μF 16V M
C525	C1CLEM226A	ELECT 22μF 16V M
C532	C1CLEM107A	ELECT 100μF 16V M
C701	C1HFRK472A	MYLAR 0.0047μF 50V K
C702	C1HFRK102A	MYLAR 0.001μF 50V K
C703	C1HFRK472A	MYLAR 0.0047μF 50V K
C705	C1HYDZ223F	CERAM 0.022μF 50V Z
C706	C1EUEK224A	ALSIC 0.22μF 25V K
C707	C1HFRK473A	MYLAR 0.047μF 50V K
C708	C1HFRK223A	MYLAR 0.022μF 50V K
C709	C1HFRK682A	MYLAR 0.0068μF 50V K
C710	C1ALEM336A	ELECT 33μF 10V M
C711	C1HYDZ223F	CERAM 0.022μF 50V Z
C712	C1HYDK103B	CERAM 0.01μF 50V K
C713	C1HLEM335A	ELECT 3.3μF 50V M

Schematic Location	Part No.	Description
C714	C1CLEM106A	ELECT 10μF 16V M
C715	C1HQRJ473A	PMCON 0.047μF 50V J
C716	C1HFRK473A	MYLAR 0.047μF 50V K
C717	C1HLEM474A	ELECT 0.47μF 50V M
C718	C1HFRK683A	MYLAR 0.068μF 50V K
C719	C1HYDZ223F	CERAM 0.022μF 50V Z
C720	C1EBDK473SR	SEMI 0.047μF 25V K
C721	C1HYDK103B	CERAM 0.01μF 50V K
C722	C1CTCK475A	TANTA 4.7μF 16V K
C723	C1ELEM475A	ELECT 4.7μF 25V M
C724	C1ELEM475A	ELECT 4.7μF 25V M
C725	C1ELEM475A	ELECT 4.7μF 25V M
C726	C1ELEM107A	ELECT 100μF 25V M
C727	C1HYDZ223F	CERAM 0.022μF 50V Z
C728	C1EBDK473SP	SEMI 0.047μF 25V K
C729	C1EBDK473SP	SEMI 0.047μF 25V K
C731	C1EBDK473SP	SEMI 0.047μF 25V K
C732	C1HLEM105A	ELECT 1μF 50V M
C733	C1HLEM335A	ELECT 3.3μF 50V M
C734	C1HLEM105A	ELECT 1μF 50V M
C735	C1EUEK154A	ALSIC 0.15μF 25V K
C736	C1HFRK473A	MYLAR 0.047μF 50V K
C737	C1HYDK102B	CERAM 0.001μF 50V K
C738	C1HFRJ683A	MYLAR 0.068μF 50V J
C739	C1CLEM107A	ELECT 100μF 16V M
C741	C1HFRK104A	MYLAR 0.1μF 50V K
C742	C1HCDJ101SL	CERAM 100pF 50V J
C744	C1HYDZ223F	CERAM 0.022μF 50V Z
C745	C1CLEM106A	ELECT 10μF 16V M
C746	C1HFRK473A	MYLAR 0.047μF 50V K
C747	C1HFRK473A	MYLAR 0.047μF 50V K
C748	C1HCDJ101SL	CERAM 100pF 50V J
C749	C1HYDZ223F	CERAM 0.022μF 50V Z
C751	C1CLEM476A	ELECT 47μF 16V M
C752	C1CLEM106A	ELECT 10μF 16V M
C753	C1HYDZ223F	CERAM 0.022μF 50V Z
C755	C1HFRK102A	MYLAR 0.001μF 50V K
C756	C1HYDK472B	CERAM 0.0047μF 50V K
C757	C1HLEM105A	ELECT 1μF 50V M
C758	C1HFRK473A	MYLAR 0.047μF 50V K
C759	C1ALEM107A	ELECT 100μF 10V M
C761	C1HLEM105A	ELECT 1μF 50V M
C762	C1HLEM105A	ELECT 1μF 50V M
C763	C1HYDK103B	CERAM 0.01μF 50V K
C772	C1HFRK682A	MYLAR 0.0068μF 50V K
C773	C1ALEM336A	ELECT 33μF 10V M
C774	C1HYDZ223F	CERAM 0.022μF 50V Z
C775	C1HYDK103B	CERAM 0.01μF 50V K
C776	C1CLEM106A	ELECT 10μF 16V M
C777	C1HLEM335A	ELECT 3.3μF 50V M
C778	C1HQRJ473A	PMCON 0.047μF 50V J
C779	C1HFRK473A	MYLAR 0.047μF 50V K
C781	C1CLEM226A	ELECT 22μF 16V M
C782	C1HFRK683A	MYLAR 0.068μF 50V K
C783	C1HYDZ223F	CERAM 0.022μF 50V Z
C784	C1HYDK103B	CERAM 0.01μF 50V K
C785	C1CTCK475A	TANTA 4.7μF 16V K
C786	C1HLEM335A	ELECT 3.3μF 50V M
C787	C1HYDK103B	CERAM 0.01μF 50V K
C788	C1HYDK103B	CERAM 0.01μF 50V K
		(DIODES)
D501	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D502	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D503	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D504	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133

Schematic Location	Part No.	Description
D507	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D508	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D510	GGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D511	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D518	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D519	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D521	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D522	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D523	DGDS442	DIODE DS442
D701	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D702	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D704	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D705	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D708	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D709	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D710	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D715	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D716	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D717	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D718	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D719	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D721	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D722	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D723	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D724	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D725	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D727	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D728	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D734	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D740	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D746	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D747	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D751	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133

Schematic Location	Part No.	Description
D752	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D753	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D765	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D767	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D768	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D769	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
		(ICS)
IC501	IGLM6402H-238	IC LM6402H
IC502	IYBA6304A	IC BA6304A
IC503	IGLM6416E-239	IC LM6416E
IC504	IGSTK6962	IC STK6962
IC701	IXMSL9378RS	IC MSL9378RS
IC702	IGLC4013B	IC LC4013B
or	INμPD4013BC	IC μPD4013BC
IC703	IGLC4081B	IC LC4081B
or	INμPD4081C	IC μPD4081C
IC704	IHHA11749	IC HA11749
IC705	IGLB1620	IC LB1620
IC706	IHHA11747ANT	IC HA11747ANT
IC707	IYBA6305	IC BA6305
IC709	IHHA11749	IC HA11749
		(PLUGS)
PV501	4-2364-00250	5P PLUG VERTICAL
PV502	4-2364-00270	7P PLUG VERTICAL
PV504	4-2364-00220	2P PLUG VERTICAL
PV505	4-2364-00230	3P PLUG VERTICAL
PV506	4-2364-00220	2P PLUG VERTICAL
PV507	4-2364-00220	2P PLUG VERTICAL
PV508	4-2364-00240	4P PLUG VERTICAL
PV509	4-2364-00220	2P PLUG VERTICAL
PV510	4-2364-00220	2P PLUG VERTICAL
PV511	4-2364-00220	2P PLUG VERTICAL
PV512	4-2364-00220	2P PLUG VERTICAL
PV513	4-2364-00230	3P PLUG VERTICAL
PV516	4-2364-00230	3P PLUG VERTICAL
PV701	4-2364-00470	7P PLUG VERTICAL
PV702	4-2364-00310	11P PLUG VERTICAL
PV703	4-2364-00240	4P PLUG VERTICAL
PV704	4-2364-00220	2P PLUG VERTICAL
PV705	4-2364-00270	7P PLUG VERTICAL
PW701	0-4059-01036	1P CORD ASSY P-P
PW702	0-4059-09055	1P CORD ASSY P-P
		(TRANSISTORS)
Q501	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q502	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q503	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q504	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q505	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q506	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q507	TG2SA608SP	TR 2SA608SP(F) or (G)
Q508	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q509	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)

Schematic Location	Part No.	Description
Q510	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q511	TG2SA608SP	TR 2SA608SP(F) or (G)
Q512	TG2SA608SP	TR 2SA608SP(F) or (G)
Q513	TG2SA608SP	TR 2SA608SP(F) or (G)
Q514	TG2SA608SP	TR 2SA608SP(F) or (G)
Q517	TYDTA144N	TR DTA144N
Q701	TYDTC124N	TR DTC124N
Q702	TG2SA608SP	TR 2SA608SP(G)
Q703	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q704	TG2SA608SP	TR 2SA608SP(F) or (G)
Q709	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q712	TYDTC124N	TR DTC124N
Q716	TYDTC124N	TR DTC124N
Q717	TYDTC124N	TR DTC124N
Q718	TG2SC536SP	TR 2SC536SP(F) or (G)
or	TN2SC945	TR 2SC945(K) or (P)
Q719	TYDTC124N	TR DTC124N
		(RESISTORS)
R501	R2ESPJ684A	CARBO 680k 1/4W J
R502	R2ESPJ684A	CARBO 680k 1/4W J
R503	R2ESPJ104A	CARBO 100k 1/4W J
R504	R2ESPJ104A	CARBO 100k 1/4W J
R505	R2ESPJ561A	CARBO 560 1/4W J
R506	R2ESPJ103A	CARBO 10k 1/4W J
R507	R2ESPJ103A	CARBO 10k 1/4W J
R508	R2ESPJ104A	CARBO 100k 1/4W J
R509	R2ESPJ104A	CARBO 100k 1/4W J
R511	R2ESPJ104A	CARBO 100k 1/4W J
R512	R2ESPJ104A	CARBO 100k 1/4W J
R513	R2ESPJ104A	CARBO 100k 1/4W J
R514	R2ESPJ104A	CARBO 100k 1/4W J
R515	R2ESPJ104A	CARBO 100k 1/4W J
R516	R2ESPJ104A	CARBO 100k 1/4W J
R517	R2ESPJ103A	CARBO 10k 1/4W J
R518	R2ESPJ104A	CARBO 100k 1/4W J
R519	R2ESPJ104A	CARBO 100k 1/4W J
R521	R2ESPJ104A	CARBO 100k 1/4W J
R522	R2ESPJ103A	CARBO 10k 1/4W J
R523	R2ESPJ104A	CARBO 100k 1/4W J
R525	R2ESPJ103A	CARBO 10k 1/4W J
R526	R2CDPJ125A	CARBO 1.2M 1/6W J
R527	R2ESPJ104A	CARBO 100k 1/4W J
R528	R2ESPJ121A	CARBO 120 1/4W J
R532	R2ESPJ223A	CARBO 22k 1/4W J
R533	R2ESPJ153A	CARBO 15k 1/4W J
R535	R2BNPC4991D	METAL 4.99K 1/8W C
R536	R2BNPC8661D	METAL 8.66K 1/8W C
R537	R2ESPJ104A	CARBO 100k 1/4W J
R538	R2ESPJ683A	CARBO 68k 1/4W J
R539	R2ESPJ102A	CARBO 1k 1/4W J
R541	R2ESPJ223A	CARBO 22k 1/4W J
R542	R2ESPJ102A	CARBO 1k 1/4W J
R543	R2ESPJ102A	CARBO 1k 1/4W J
R544	R2ESPJ273A	CARBO 27k 1/4W J
R545	R2ESPJ273A	CARBO 27k 1/4W J
R546	R2ESPJ103A	CARBO 10k 1/4W J
R547	R2ESPJ392A	CARBO 3.9k 1/4W J
R548	R2ESPJ103A	CARBO 10k 1/4W J
R549	R2ESPJ103A	CARBO 10k 1/4W J
R551	R2ESPJ222A	CARBO 2.2k 1/4W J
R552	R2ESPJ222A	CARBO 2.2k 1/4W J
R555	R2ESPJ104A	CARBO 100k 1/4W J
R556	R2ESPJ104A	CARBO 100k 1/4W J
R557	R2ESPJ104A	CARBO 100k 1/4W J
R559	R2ESPJ153A	CARBO 15k 1/4W J
R561	R2ESPJ103A	CARBO 10k 1/4W J
R562	R2ESPJ223A	CARBO 22k 1/4W J

Schematic Location	Part No.	Description		
R563	R2ESPJ471A	CARBO	470	1/4W J
R564	R2ESPJ682A	CARBO	6.8k	1/4W J
R565	R2ESPJ223A	CARBO	22k	1/4W J
R566	R2ESPJ223A	CARBO	22k	1/4W J
R567	R2ESPJ561A	CARBO	560	1/4W J
R568	R2ESPJ105A	CARBO	1M	1/4W J
R569	R2ESPJ103A	CARBO	10k	1/4W J
R571	R2ESPJ104A	CARBO	100k	1/4W J
R572	R2ESPJ104A	CARBO	100k	1/4W J
R573	R2ESPJ103A	CARBO	10k	1/4W J
R574	R2ESPJ391A	CARBO	390	1/4W J
R575	R2ESPJ181A	CARBO	180	1/4W J
R576	R2ESPJ222A	CARBO	2.2k	1/4W J
R577	R2ESPJ222A	CARBO	2.2k	1/4W J
R579	R2ESPJ563A	CARBO	56k	1/4W J
R581	R2ESPJ101A	CARBO	100	1/4W J
R582	R2ESPJ101A	CARBO	100	1/4W J
R584	R2ESPJ101A	CARBO	100	1/4W J
R585	R2ESPJ101A	CARBO	100	1/4W J
R586	R2ESPJ101A	CARBO	100	1/4W J
R589	R2ESPJ822A	CARBO	8.2k	1/4W J
R591	R2ESPJ222A	CARBO	2.2k	1/4W J
R592	R2ESPJ562A	CARBO	5.6k	1/4W J
R593	R2ESPJ103A	CARBO	10k	1/4W J
R594	R2ESPJ682A	CARBO	6.8k	1/4W J
R595	R2ESPJ472A	CARBO	4.7k	1/4W J
R596	R2ESPJ472A	CARBO	4.7k	1/4W J
R598	R2ESPJ103A	CARBO	10k	1/4W J
R599	R2ESPJ103A	CARBO	10k	1/4W J
R601	R2ESPJ103A	CARBO	10k	1/4W J
R602	R2ESPJ222A	CARBO	2.2k	1/4W J
R603	R2ESPJ392A	CARBO	3.9k	1/4W J
R604	R2ESPJ101A	CARBO	100	1/4W J
R605	R2ESPJ101A	CARBO	100	1/4W J
R606	R2ESPJ103A	CARBO	10k	1/4W J
R607	R2ESPJ821A	CARBO	820	1/4W J
R608	R2ESPJ152A	CARBO	1.5k	1/4W J
R701	R2ESPJ273A	CARBO	27k	1/4W J
R702	R2ESPJ823A	CARBO	82k	1/4W J
R703	R2ESPJ103A	CARBO	10k	1/4W J
R704	R2ESPJ223A	CARBO	22k	1/4W J
R709	R2CDPJ155A	CARBO	1.5M	1/6W J
R710	R2ESPJ104A	CARBO	100k	1/4W J
R711	R2ESPJ104A	CARBO	100k	1/4W J
R712	R2ESPJ104A	CARBO	100k	1/4W J
R713	R2ESPJ104A	CARBO	100k	1/4W J
R714	R2ESPJ103A	CARBO	10k	1/4W J
R715	R2ESPJ472A	CARBO	4.7k	1/4W J
R716	R2ESPJ223A	CARBO	22k	1/4W J
R717	R2ESPJ472A	CARBO	4.7k	1/4W J
R718	R2ESPJ124A	CARBO	120k	1/4W J
R719	R2ESPJ473A	CARBO	47k	1/4W J
R721	R2ESPJ103A	CARBO	10k	1/4W J
R722	R2ESPJ103A	CARBO	10k	1/4W J
R723	R2ESPJ101A	CARBO	100	1/4W J
R724	R2ESPJ222A	CARBO	2.2k	1/4W J
R725	R2ESPJ392A	CARBO	3.9k	1/4W J
R726	R2ESPJ273A	CARBO	27k	1/4W J
R727	R2ESPJ390A	CARBO	39	1/4W J
R728	R2ESPJ101A	CARBO	100	1/4W J
R729	R2ESPJ102A	CARBO	1k	1/4W J
R731	R2ESPJ102A	CARBO	1k	1/4W J
R732	R2ESPJ154A	CARBO	150k	1/4W J
R733	R2ESPJ224A	CARBO	220k	1/4W J
R734	R2ESPJ224A	CARBO	220k	1/4W J
R735	R2ESPJ563A	CARBO	56k	1/4W J
R736	R2ESPJ123A	CARBO	12k	1/4W J
R737	R2ESPJ472A	CARBO	4.7k	1/4W J
R738	R2ESPJ123A	CARBO	12k	1/4W J
R739	R2ESPJ100A	CARBO	10	1/4W J

Schematic Location	Part No.	Description		
R741	R2ESPJ100A	CARBO	10	1/4W J
R742	R2ESPJ100A	CARBO	10	1/4W J
R743	R2ESPJ333A	CARBO	33k	1/4W J
R744	R2ESPJ471A	CARBO	470	1/4W J
R745	R2ESPJ471A	CARBO	470	1/4W J
R746	R2HNPKR47A	METAL	0.47	1/2W K
R747	R2ESPJ105A	CARBO	1M	1/4W J
R748	R2ESPJ562A	CARBO	5.6k	1/4W J
R749	R2ESPJ103A	CARBO	10k	1/4W J
R751	R2ESPJ223A	CARBO	22k	1/4W J
R752	R2ESPJ104A	CARBO	100k	1/4W J
R753	R2ESPJ473A	CARBO	47k	1/4W J
R754	R2ESPJ473A	CARBO	47k	1/4W J
R755	R2ESPJ102A	CARBO	1k	1/4W J
R756	R2ESPJ754A	CARBO	750k	1/4W J
R757	R2ESPJ105A	CARBO	1M	1/4W J
R763	R2ESPJ274A	CARBO	270k	1/4W J
R768	R2ESPJ103A	CARBO	10k	1/4W J
R769	R2ESPJ153A	CARBO	15k	1/4W J
R771	R2ESPJ821A	CARBO	820	1/4W J
R772	R2ESPJ821A	CARBO	820	1/4W J
R776	R2ESPJ102A	CARBO	1k	1/4W J
R777	R2ESPJ104A	CARBO	100k	1/4W J
R779	R2ESPJ562A	CARBO	5.6k	1/4W J
R781	R2ESPJ332A	CARBO	3.3k	1/4W J
R783	R2ESPJ223A	CARBO	22k	1/4W J
R784	R2ESPJ223A	CARBO	22k	1/4W J
R787	R2ESPJ105A	CARBO	1M	1/4W J
R788	R2ESPJ223A	CARBO	22k	1/4W J
R789	R2ESPJ472A	CARBO	4.7k	1/4W J
R791	R2ESPJ221A	CARBO	220	1/4W J
R792	R2ESPJ182A	CARBO	1.8k	1/4W J
R794	R2ESPJ103A	CARBO	10k	1/4W J
R795	R2ESPJ103A	CARBO	10k	1/4W J
R796	R2ESPJ472A	CARBO	4.7k	1/4W J
R797	R2ESPJ562A	CARBO	5.6k	1/4W J
R798	R2ESPJ102A	CARBO	1k	1/4W J
R799	R2ESPJ103A	CARBO	10k	1/4W J
R801	R2ESPJ334A	CARBO	330k	1/4W J
R802	R2ESPJ331A	CARBO	330	1/4W J
R803	R2ESPJ222A	CARBO	2.2k	1/4W J
R804	R2ESPJ101A	CARBO	100	1/4W J
R805	R2ESPJ392A	CARBO	3.9k	1/4W J
R819	R2ESPJ152A	CARBO	1.5k	1/4W J
R823	R2ESPJ822A	CARBO	8.2k	1/4W J
R824	R2ESPJ223A	CARBO	22k	1/4W J
R825	R2ESPJ562A	CARBO	4.7k	1/4W J
R826	R2ENPF4701K	METAL	4.70k	1/4W F
R827	R2ENPF2201K	METAL	2.20k	1/4W F
R829	R2ESPJ104A	CARBO	100k	1/4W J
R830	R2ESPJ221A	CARBO	220	1/4W J
R831	R2ESPJ104A	CARBO	100k	1/4W J
R832	R2ESPJ101A	CARBO	100	1/4W J
R833	R2ESPJ222A	CARBO	2.2k	1/4W J
R834	R2ESPJ272A	CARBO	2.7k	1/4W J
R835	R2ESPJ102A	CARBO	1k	1/4W J
R836	R2ESPJ103A	CARBO	10k	1/4W J
R837	R2ENPF4701K	METAL	4.70k	1/4W F
R838	R2ESPJ390A	CARBO	39	1/4W J
R839	R2ESPJ332A	CARBO	3.3k	1/4W J
R841	R2ESPJ102A	CARBO	1k	1/4W J
R842	R2ESPJ102A	CARBO	1k	1/4W J
R843	R2ESPJ333A	CARBO	33k	1/4W J
R844	R2ESPJ224A	CARBO	220k	1/4W J
R845	R2ESPJ224A	CARBO	220k	1/4W J
R846	R2ESPJ473A	CARBO	47k	1/4W J
R847	R2ESPJ123A	CARBO	12k	1/4W J
R848	R2ESPJ562A	CARBO	5.6k	1/4W J
R849	R2ESPJ123A	CARBO	12k	1/4W J
R850	R2ESPJ222A	CARBO	2.2k	1/4W J

Schematic Location	Part No.	Description
R851	R2ESPJ103A	CARBO 10k 1/4W J
R852	R2ESPJ103A	CARBO 10k 1/4W J
R853	R2ESPJ102A	CARBO 1k 1/4W J
R858	R2ESPJ333A	CARBO 33k 1/4W J
R859	R2ESPJ333A	CARBO 33k 1/4W J
R861	R2ESPJ151A	CARBO 150 1/4W J
		(PINS)
TP501	4-2374-00030	TEST POINT PIN
TP701	4-2374-00030	TEST POINT PIN
TP702	4-2374-00030	TEST POINT PIN
TP703	4-2374-00030	TEST POINT PIN
TP704	4-2374-00030	TEST POINT PIN
TP705	4-2374-00030	TEST POINT PIN
TP706	4-2374-00030	TEST POINT PIN
TP707	4-2374-00030	TEST POINT PIN
		(VARIABLE RESISTORS)
VR702	4-2224-00460	SEMI 150kB
VR703	4-2224-00540	SEMI 150kB
VR704	4-2224-00470	SEMI 220kB
VR705	4-2224-00470	SEMI 220kB
VR706	4-2224-00550	SEMI 15kB
VR710	4-2224-00720	SEMI 330kB
VR713	4-2224-00450	SEMI 68kB
VR714	4-2224-00450	SEMI 68kB
VR715	4-2224-00770	SEMI 1.5kB
VR718	4-2224-00780	SEMI 4.7kB
VR719	4-2224-00580	VR 500kBX1
W4301	0-4052-00210	CORD ASSY
W4302	0-4052-00220	CORD ASSY
W4303	0-4057-00060	CORD ASSY
W4304	0-4057-00070	CORD ASSY
W4305	0-4057-00080	CORD ASSY
W4308	0-4052-00270	CORD ASSY
X501	4-2584-00041	CERAMIC RESONATOR
		(ZENER DIODES)
ZD501	DGGZA4.3Y	ZE DIODE GZA4.3Y
ZD702	DGGZA5.1Y	ZE DIODE GZA5.1Y
or	DYMTZ5.1B	ZE DIODE MTZ5.1B

TUNER RF CONVERTER P.C.B. PARTS

Schematic Location	Part No.	Description
	0-4014-01090	REAR TERMINAL PC ASSY
	4-2374-00110	REAR TERMINAL BD.HAB-A-A
		(PLUG)
PH002	4-2364-00231	3P PLUG HORIZONTALLY
		(RESISTOR)
R001	R2ESPJ750A	CARBO 75 1/4W J
W4101	0-4049-00020	CORD ASSY
W4102	0-4052-00190	CORD ASSY
	0-4034-00050	WIRE SHIELD ASSY
	4-1154-03220	TUNER IF UNIT
	4-1164-02220	RF CONVERTER-A

TIMER P.C.B. PARTS

Schematic Location	Part No.	Description
	0-4014-01130	TIMER PC ASSY
	143-2-3304-01700	BASE FLTER MTG-HAB
	143-2-5604-02100	SPACER LED-HAB
BR101	4-2214-00110	BLOCK RESIST 33kX8
or	4-2214-00111	BLOCK RESIST 33kX8
BR102	4-2214-00110	BLOCK RESIST 33kX8
or	4-2214-00111	BLOCK RESIST 33kX8
		(CAPACITORS)
C1002	C1EBDK473SR	SEMI 0.047μF 25V K
C1003	C1CGEM226A	ELECT 22μF 16V M
C1006	C1HYDZ103F	CERAM 0.01μF 50V Z
C1007	C1HYDZ103F	CERAM 0.01μF 50V Z
C1008	C1HYDZ103F	CERAM 0.01μF 50V Z
C1009	C1HCDJ101SL	CERAM 100pF 50V J
C1010	C1HCDJ101SL	CERAM 100pF 50V J
C1011	C1CLEM226A	ELECT 22μF 16V M
C1012	C1CGEM476A	ELECT 47μF 16V M
C1013	C1VGEM106A	ELECT 10μF 35V M
C1015	C1HYDZ103F	CERAM 0.01μF 50V Z
C1301	C1HGEM105A	ELECT 1μF 50V M
C1302	C1EBDK473SR	SEMI 0.047μF 25V K
C1303	C1HGEM225A	ELECT 2.2μF 50V M
C1305	C1HYDZ223F	CERAM 0.022μF 50V Z
C1306	C1HYDZ103F	CERAM 0.01μF 50V Z
C1307	C1HYDZ103F	CERAM 0.01μF 50V Z
C1308	C1HYDZ103F	CERAM 0.01μF 50V Z
C1309	C1HGEM225A	ELECT 2.2μF 50V M
C1310	C1HYDZ103F	CERAM 0.01μF 50V Z
C1311	C1HLEM226A	ELECT 22μF 50V M
CR101	4-2584-00021	CERAMIC RESONATOR
		(DIODE)
D1001	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1004	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1005	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1006	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1007	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1009	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1010	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1011	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1012	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1013	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1014	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1015	DFERB12-01	DIODE ERB12-01
or	DGDS135E	DIODE DS135E
D1016	DYLTZ-G15	LED LTZ-G15
D1021	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1309	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1310	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1311	DGGMA01	DIODE GMA01

Schematic Location	Part No.	Description
or	DY1SS131	DIODE 1SS131
D1312	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1313	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1314	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1315	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1316	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1317	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1318	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1319	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1320	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1321	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1322	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1323	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1324	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1329	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1330	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1331	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1332	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1333	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1334	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1335	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1336	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1337	DYSLR-54UR-H	LED SLR-54UR-H
D1338	DYSLR-54UR-H	LED SLR-54UR-H
D1339	DYSLR-54UR-H	LED SLR-54UR-H
D1340	DYSLR-54UR-H	LED SLR-54UR-H
D1341	DYSLR-54UR-H	LED SLR-54UR-H
D1342	DYSLR-54UR-H	LED SLR-54UR-H
D1343	DYSLR-54UR-H	LED SLR-54UR-H
D1344	DYSLR-54UR-H	LED SLR-54UR-H
D1350	DFERB12-01	DIODE ERB12-01
or	DGDS135E	DIODE DS135E
D1351	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1352	DGGMA01	DIODE GMA01
or	DY1SS131	DIODE 1SS131
D1355	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D1356	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
FL101	4-2154-00040	DIGITRON
		(ICS)
IC101	IGLC6502B-633	IC LC6502B
IC131	INμPC1363C	IC μPC1363C
PR101	4-2224-00840	12CH PRESET UNIT

Schematic Location	Part No.	Description
		(PLUGS)
PV101	4-2364-00270	7P PLUG VERTICAL
PV102	4-2364-00270	7P PLUG VERTICAL
PV103	4-2364-00260	6P PLUG VERTICAL
PV104	4-2364-00230	3P PLUG VERTICAL
PV106	4-2364-00220	2P PLUG VERTICAL
PV131	4-2364-00280	8P PLUG VERTICAL
PV132	4-2364-00230	3P PLUG VERTICAL
PV133	4-2364-00220	2P PLUG VERTICAL
		(TRANSISTORS)
Q1001	TG2SA1345	DIGITAL TR 2SA1345
Q1002	TG2SA1345	DIGITAL TR 2SA1345
Q1003	TG2SA1345	DIGITAL TR 2SA1345
Q1004	TG2SC536NP	TR 2SC536NP(F)
Q1005	TG2SC536NP	TR 2SC536NP(F)
Q1007	TYDTA124N	DIGITAL TR DTA124N
Q1008	TYDTA124N	DIGITAL TR DTA124N
Q1301	TYDTC124N	TR DTC124N
Q1302	TG2SC2274	TR 2SC2274(F)
Q1303	TG2SC608NP	TR 2SC608NP(F)
Q1304	TG2SC536NP	TR 2SC536NP(E) or (F)
Q1305	TG2SC2274	TR 2SC2274(E) or (F)
Q1306	TG2SA984K	TR 2SA984K(E) or (F)
		(RESISTORS)
R1001	R2ESPJ333A	CARBO 33k 1/4W J
R1002	R2ESPJ333A	CARBO 33k 1/4W J
R1003	R2ESPJ333A	CARBO 33k 1/4W J
R1004	R2ESPJ333A	CARBO 33k 1/4W J
R1005	R2ESPJ103A	CARBO 10k 1/4W J
R1006	R2ESPJ103A	CARBO 10k 1/4W J
R1007	R2ESPJ103A	CARBO 10k 1/4W J
R1008	R2ESPJ103A	CARBO 10k 1/4W J
R1009	R2ESPJ333A	CARBO 33k 1/4W J
R1010	R2ESPJ393A	CARBO 39k 1/4W J
R1011	R2ESPJ104A	CARBO 100k 1/4W J
R1012	R2ESPJ223A	CARBO 22k 1/4W J
R1013	R2ESPJ824A	CARBO 820k 1/4W J
R1014	R2ESPJ104A	CARBO 100k 1/4W J
R1015	R2ESPJ333A	CARBO 33k 1/4W J
R1017	R2ESPJ563A	CARBO 56k 1/4W J
R1018	R2ESPJ473A	CARBO 47k 1/4W J
R1019	R2ESPJ223A	CARBO 22k 1/4W J
R1020	R2ESPJ223A	CARBO 22k 1/4W J
R1021	R2ESPJ223A	CARBO 22k 1/4W J
R1022	R2ESPJ223A	CARBO 22k 1/4W J
R1023	R2ESPJ223A	CARBO 22k 1/4W J
R1024	R2ESPJ223A	CARBO 22k 1/4W J
R1025	R2ESPJ223A	CARBO 22k 1/4W J
R1026	R2ESPJ223A	CARBO 22k 1/4W J
R1027	R2ESPJ333A	CARBO 33k 1/4W J
R1028	R2ESPJ105A	CARBO 1M 1/4W J
R1029	R2ESPJ222A	CARBO 2.2k 1/4W J
R1035	R2ESPJ391A	CARBO 390 1/4W J
R1036	R2ESPJ222A	CARBO 2.2k 1/4W J
R1301	R2ESPJ471A	CARBO 470 1/4W J
R1302	R2ESPJ102A	CARBO 1k 1/4W J
R1303	R2ESPJ104A	CARBO 100k 1/4W J
R1304	R2ESPJ223A	CARBO 22k 1/4W J
R1305	R2ESPJ104A	CARBO 100k 1/4W J
R1306	R2ESPJ103A	CARBO 10k 1/4W J
R1307	R2ESPJ154A	CARBO 150k 1/4W J
R1308	R2ESPJ563A	CARBO 56k 1/4W J
R1309	R2ESPJ563A	CARBO 56k 1/4W J
R1310	R2ESPJ123A	CARBO 12k 1/4W J
R1312	R2ESPJ333A	CARBO 33k 1/4W J
R1313	R2ESPJ103A	CARBO 10k 1/4W J
R1314	R2ESPJ273A	CARBO 27k 1/4W J
R1315	R2ESPJ102A	CARBO 1k 1/4W J
R1316	R2ESPJ472A	CARBO 4.7k 1/4W J

Schematic Location	Part No.	Description
R1317	R2ESPJ474A	CARBO 470k 1/4W J
R1318	R2ESPJ473A	CARBO 47k 1/4W J
R1319	R2ESPJ123A	CARBO 12k 1/4W J
R1320	R2ESPJ181A	CARBO 180 1/4W J
R1321	R2ESPJ561A	CARBO 560 1/4W J
R1322	R2ESPJ102A	CARBO 1k 1/4W J
R1325	R2ESPJ562A	CARBO 5.6k 1/4W J
R1326	R2ESPJ683A	CARBO 68k 1/4W J
R1327	R2ESPJ822A	CARBO 8.2k 1/4W J
R1328	R2ESPJ473A	CARBO 47k 1/4W J
		(SWITCHS)
S1001	4-2314-00400	KEY BOARD SW
S1002	4-2314-00400	KEY BOARD SW
S1003	4-2314-00400	KEY BOARD SW
S1004	4-2314-00400	KEY BOARD SW
S1005	4-2314-00400	KEY BOARD SW
S1006	4-2314-00400	KEY BOARD SW
S1007	4-2314-00400	KEY BOARD SW
S1301	4-2314-00400	KEY BOARD SW
S1302	4-2314-00400	KEY BOARD SW
S1303	4-2314-00400	KEY BOARD SW
S1304	4-2314-00400	KEY BOARD SW
S1305	4-2314-00400	KEY BOARD SW
S1306	4-2314-00400	KEY BOARD SW
S1307	4-2314-00400	KEY BOARD SW
S1308	4-2314-00400	KEY BOARD SW
S1309	4-2314-00400	KEY BOARD SW
S1310	4-2314-00400	KEY BOARD SW
S1311	4-2314-00400	KEY BOARD SW
S1312	4-2314-00400	KEY BOARD SW
S1313	4-2314-00410	MICRO SW (AFT)
		(PINS)
TP101	4-2374-00030	TEST POINT PIN
TP102	4-2374-00030	TEST POINT PIN
TP131	4-2374-00030	TEST POINT PIN
TP132	4-2374-00030	TEST POINT PIN
		(ZENER DIODES)
ZD101	DGGZA5.1-Y	ZE DIODE GZA5.1-Y
or	DYMTZ5.1-B	ZE DIODE MTZ5.1-B
ZD102	DGGZM20-B2	ZE DIODE GZM20-B2
or	DYMTZ20-D	ZE DIODE MTZ20-D
ZD131	DGGZA4.3-Y	ZE DIODE GZA4.3-Y
or	DMMA4043-H	ZE DIODE MA4043-H
ZD133	DHHZT33	ZE DIODE HZT33
or	DNμPC574J	ZE DIODE μPC574J
0030	0-4014-01160 IMDN6838	COUNTER PC ASSY HALL IC DN6838
W2201	0-4048-00160	CORD ASSY

POWER CIRCUIT P.C.B. PARTS

Schematic Location	Part No	Description
	0-4014-01401	POWER A PC ASSY
	4-2354-00210	FUSE CLIP
		(CAPACITORS)
C901 ⚠	C1EMRM473B-E	MYLAR 0.047μF 250V
C902 ⚠	C1HYDZ472F	CERAM 0.0047μF 50V Z
C903 ⚠	C1HYDZ472F	CERAM 0.0047μF 50V Z
C904 ⚠	C1HYDZ472F	CERAM 0.0047μF 50V Z
C905 ⚠	C1HYDZ472F	CERAM 0.0047μF 50V Z
C906 ⚠	C1HYDK471B	CERAM 470pF 500V K
C907 ⚠	C1HYDK471B	CERAM 470pF 500V K
C908 ⚠	C1HYDZ472F	CERAM 0.0047μF 50V Z
C909 ⚠	C1HYDZ472F	CERAM 0.0047μF 50V Z
C911 ⚠	C1VDGM001T	ELECT 3300μF 35V M
C912 ⚠	C1HYDZ223F	CERAM 0.022μF 50V Z
C913	C1ELEM107A	ELECT 100μF 25V M
C914	C1ELEM107A	ELECT 100μF 25V M
C915	C1ELEM107A	ELECT 100μF 25V M
C916	C1ALEM476A	ELECT 47μF 10V M
C917 ⚠	C1JREM227A	ELECT 220μF 63V M
C918 ⚠	C1JREM106A	ELECT 10μF 63V M
C919 ⚠	C1VLEM108A	ELECT 1000μF 35V M
C920	C1HYDZ472F	CERAM 0.0047μF 50V Z
C921	C1HYDZ223F	CERAM 0.022μF 50V Z
C922	COJLEM108A	ELECT 1000μF 6.3V M
C923	C1CLEM228A	ELECT 2200μF 16V M
C924	C1HLEM106A	ELECT 10μF 50V M
C925	C1HYDZ103F	CERAM 0.01μF 50V Z
C926	C1HYDZ103F	CERAM 0.01μF 50V Z
		(DIODES)
D901 ⚠	DFERC04-02	DIODE ERC04-02
D902 ⚠	DFERC04-02	DIODE ERC04-02
D903 ⚠	DFERC04-02	DIODE ERC04-02
D904 ⚠	DFERC04-02	DIODE ERC04-02
D905 ⚠	DFERB12-02	DIODE ERB12-02
or	DGDS135D	DIODE DS135D
D906 ⚠	DFERB12-02	DIODE ERB12-02
or	DGDS135D	DIODE DS135D
D907 ⚠	DFERB12-02	DIODE ERB12-02
or	DGDS135D	DIODE DS135D
D908 ⚠	DFERB12-02	DIODE ERB12-02
or	DGDS135D	DIODE DS135D
D909	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
F901 ⚠	4-2344-00070	FUSE T500MA SEMKO
F902 ⚠	4-2344-00080	FUSE T3.15A SEMKO
F903 ⚠	4-2344-00070	FUSE T500MA SEMKO
F904 ⚠	4-2344-00070	FUSE T500MA SEMKO
F905 ⚠	4-2344-00050	FUSE T100MA SEMKO
		(PLUGS)
PV901	4-2364-00030	3P PLUG VERTICAL
PV902	4-2364-00030	3P PLUG VERTICAL
PV904	4-2364-00050	5P PLUG VERTICAL
PV905	4-2364-00020	2P PLUG VERTICAL
PV906	4-2364-00060	6P PLUG VERTICAL
PV907	4-2364-00050	5P PLUG VERTICAL
PV909	4-2364-00020	2P PLUG VERTICAL
PV910	4-2364-00020	2P PLUG VERTICAL
		(TRANSISTORS)
Q901	TG2SD894	DARLINGTON TR 2SD894
Q902	TG2SA984	TR 2SA984(E) or (F)
Q903	TG2SC536NP	TR 2SC536NP(F) or (G)
Q904	TG2SC2274	TR 2SC2274(E)or(F)
or	TN2SC2002	TR 2SC2002(L)or(M)
Q905	TG2SC536NP	TR 2SC536NP(F)or(G)
		(RESISTORS)
R902	R3AXPJ152A	OMF 1.5k 1W J
R903	R2HDPJ682A	CARBO 6.8k 1/2W J
R904	R2ESPJ103A	CARBO 10k 1/4W J
R905	R2ESPJ333A	CARBO 33k 1/4W J
R906	R2ESPJ682A	CARBO 6.8k 1/4W J
R907	R2ESPJ103A	CARBO 10k 1/4W J
R909	R2ESPJ184A	CARBO 180k 1/4W J
R911	R2ESPJ184A	CARBO 180k 1/4W J
R912	R2ESPJ334A	CARBO 330k 1/4W J

Schematic Location	Part No.	Description
R913	R2ESPJ334A	CARBO 330k 1/4W J
R914	R2ESPJ563A	CARBO 56k 1/4W J
R915	R2ESPJ182A	CARBO 1.8k 1/4W J
R916	R2ESPJ333A	CARBO 33k 1/4W J
R917	R2ESPJ152A	CARBO 1.5k 1/4W J
R918	R2ESPJ473A	CARBO 47k 1/4W J
R919	R2ESPJ103A	CARBO 10k 1/4W J
		(ZENER DIODES)
ZD902	DFEQA02-35B	ZE DIODE EQA02-35B
or	DGGZA36-Y	ZE DIODE GZA36-Y
	0-4014-01410	POWER B PC ASSY
		(CAPACITORS)
C927	C1CLEM476A	ELECT 47μF 16V M
C928	C1CLEM476A	ELECT 47μF 16V M
C929	C1ELEM476A	ELECT 47μF 25V M
		(IC)
IC902	IGSTK5352	HYBRID IC STK5352
		(RESISTORS)
R921 ⚠	R2HZPJ100A	FUSE 10 1/2W J
R922	R2ESPJ153A	CARBO 15k 1/4W J
W4401	0-4025-00460	CORD ASSY
⚠	0-4054-00090	POWER CORD ASSY EUR
or	0-4054-00091	POWER CORD ASSY EUR
⚠	143-2-3604-00500	INSULATOR SW COVER
IC901	IGSTK5322H	HYBRID IC STK5322H
T901 ⚠	4-2514-00402	POWER TRANSFORMER

KEY FUNCTION P.C.B. PARTS

Schematic Location	Part No	Description
	0-4014-01122	KEY FUNCTION PC ASSY
BR651	4-2214-00030	SANYO 001 BLOCK R
or	4-2214-00031	SANYO 001 BLOCK R
or	4-2214-00032	SANYO 001 BLOCK R
		(DIODES)
D651	DYSLR-54UR	LED SLR-54UR
D652	DYSLR-54UR	LED SLR-54UR
D653	DYSLR-54UR	LED SLR-54UR
D654	DYSLR-34UR5F	LED SLR-34UR5F
D656	DYSLR-34UR5F	LED SLR-34UR5F
D657	DYSLR-34UR5F	LED SLR-34UR5F
		(PLUGS)
PV652	4-2364-00240	4P PLUG VERTICAL
PV653	4-2364-00280	8P PLUG VERTICAL
		(RESISTORS)
R651	R2ESPJ103A	CARBO 10k 1/4W J
R652	R2ESPJ122A	CARBO 1.2k 1/4W J
R653	R2ESPJ563A	CARBO 56k 1/4W J
R654	R2ESPJ391A	CARBO 390 1/4W J
R655	R2ESPJ391A	CARBO 390 1/4W J
R656	R2ESPJ391A	CARBO 390 1/4W J
R658	R2ESPJ391A	CARBO 390 1/4W J
R659	R2ESPJ391A	CARBO 390 1/4W J
R664	R2ESPJ563A	CARBO 56k 1/4W J

Schematic Location	Part No.	Description
		(SWITCHS)
S651	4-2314-00350	PUSH SW 3KEY
S652	4-2314-00310	KEY BOARD SW
S653	4-2314-00310	KEY BOARD SW
S655	4-2314-00310	KEY BOARD SW
S656	4-2314-00310	KEY BOARD SW
S657	4-2314-00310	KEY BOARD SW
S662	4-2314-00310	KEY BOARD SW
S662	4-2314-00310	KEY BOARD SW
S663	4-2314-00310	KEY BOARD SW
W4307	0-4052-00200	CORD ASSY

MUTE P.C.B. PARTS

Schematic Location	Part No.	Description
	0-4014-01080	MUTE PC ASSY
		(CAPACITORS)
C001	C1HLEM105A	ELECT 1μF 50V M
C002	C1HYDK681B	CERAM 680pF 50V K
C003	C1HLEM475A	ELECT 4.7μF 50V M
C004	C1HYDK103B	CERAM 0.01μF 50V K
C005	C1CLEM226A	ELECT 22μF 16V M
C006	C1HFRK473A	MYLAR 0.047μF 50V K
C007	C1HFRK333A	MYLAR 0.033μF 50V K
C008	C1HFRK103A	MYLAR 0.01μF 50V K
C009	C1HQRJ562A	PMCON 0.0056μF 50V J
C010	C1HFRK102A	MYLAR 0.001μF 50V K
C011	C1HFRK102A	MYLAR 0.001μF 50V K
C012	C1AAEM476A	ELECT 47μF 10V M
C013	C1HLEM474A	ELECT 0.47μF 50V M
		(DIODES)
D001	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D002	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D003	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D004	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
D005	DGGMA01-L	DIODE GMA01-L
or	DY1SS133	DIODE 1SS133
		(ICS)
IC001	IGLA7808	IC LA7808
IC002	ITTC4030BP	IC TC4030BP
IC003	IGLA6358	IC LA6358
		(COILS)
L001	4-2724-E101K	INDUCTOR 100μH
L001	4-2724-R101K	INDUCTOR 100μH
		(PLUGS)
PV001	4-2364-00260	6P PLUG VERTICAL
PV002	4-2364-00290	9P PLUG VERTICAL
		(TRANSISTORS)
Q001	TG2SC536NP	TR 2SC536NP(F)or(G)
or	TN2SC945	TR 2SC945(K)or(P)
		(RESISTORS)
R001	R2ESPJ103A	CARBO 10k 1/4W J
R002	R2ESPJ221A	CARBO 220 1/4W J
R003	R2ESPJ334A	CARBO 330k 1/4W J
R004	R2ESPJ222A	CARBO 2.2k 1/4W J
R005	R2ESPJ333A	CARBO 33k 1/4W J

Schematic Location	Part No.	Description
R006	R2ESPJ472A	CARBO 4.7k 1/4W J
R007	R2ESPJ123A	CARBO 12k 1/4W J
R008	R2ESPJ153A	CARBO 15k 1/4W J
R009	R2ESPJ102A	CARBO 1k 1/4W J
R010	R2ESPJ183A	CARBO 18k 1/4W J
R011	R2ESPJ102A	CARBO 1k 1/4W J
R012	R2ESPJ104A	CARBO 100k 1/4W J
R013	R2ESPJ103A	CARBO 10k 1/4W J
R014	R2ESPJ223A	CARBO 22k 1/4W J
R015	R2ESPJ222A	CARBO 2.2k 1/4W J
R016	R2ESPJ332A	CARBO 3.3k 1/4W J
R017	R2ESPJ332A	CARBO 3.3k 1/4W J
R018	R2ESPJ472A	CARBO 4.7k 1/4W J
R019	R2ESPJ103A	CARBO 10k 1/4W J
R020	R2ESPJ103A	CARBO 10k 1/4W J
R021	R2ESPJ223A	CARBO 22k 1/4W J
R022	R2ESPJ563A	CARBO 56k 1/4W J
R023	R2ESPJ223A	CARBO 22k 1/4W J
R024	R2ESPJ103A	CARBO 10k 1/4W J
		(PINS)
TP001	4-2374-00030	TEST POINT PIN
TP002	4-2374-00030	TEST POINT PIN
TP003	4-2374-00030	TEST POINT PIN
		(VARIABLE RESISTOR)
VR001	4-2224-00250	SEMI 10kB

Bezeichnung/Description
SERVICE MANUAL, PL
Menge/Quantity
1
Teile-Nr./Parts No.
WM10996
LS-Nr.
Lagerort
31C03
410369 / 1
FISHER HiFi Service

FISHER

Service/Ersatzteillager:
FISHER HiFi Europa Vertriebs-GmbH
Shönstraße 80, 8000 München 90
Telefon 089/2379-1
Telex 5-212384 D
Wenden Sie sich bitte mit technischen Fragen an diese Adresse.

Verwaltung, Verkauf und Auslieferungslager:
FISHER HiFi Europa Vertriebs-GmbH
Truderingerstraße 13, 8000 München 80
Telefon 089/4145-0
Telex 5-24665 D
5-24033 D

Printed in Japan
'83/Oct. WM-10996 (2000)

SERVICE INFORMATION

FISHER®

VIDEO CASSETTE RECORDER

FVH-P615/P618/P620/D620 /P710/P711/P715/P716 /P720/P721/P722/P725 /P830 (For PAL)

IDLER REPLACEMENT

If the idler has to be replaced with the spare part, proceed as follows:

1. Detach the Top Cover. Remove the two screws (right and left) on the Top Cover.
2. Detach the Bottom Cover. Remove the eight fastening screws.
3. Detach the Take-Up Reel. See Fig. 1.

3.1 Remove the stopper washer.

3.2 Disengage the Subbrake Spring.

3.3 Detach the Take-Up Reel by lifting it straight up.

Note: Do not to lose the washers for the Reel Shaft.

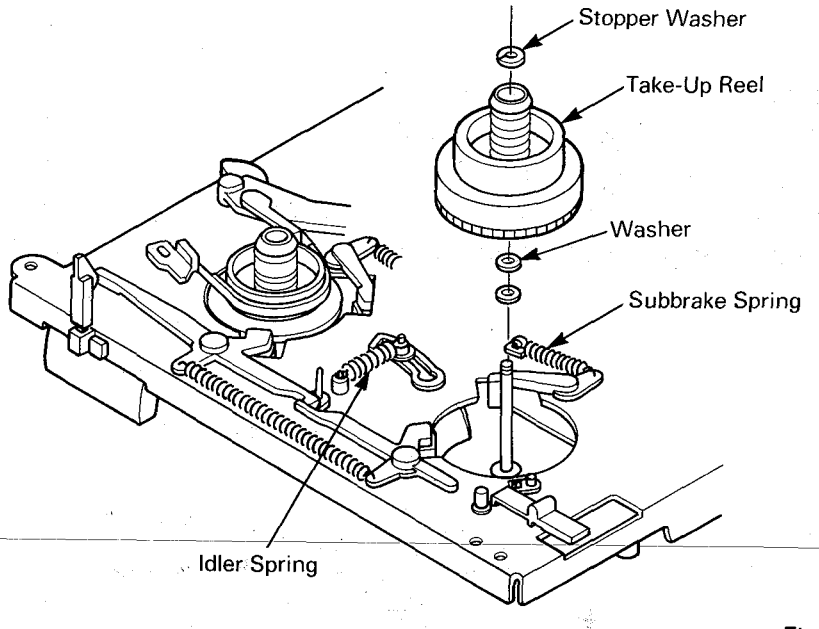


Fig. 1

4. Disengage the Idler Spring. See Fig. 1.

Printed in Japan AUG/'85/6000 WM-16135

5. Disengage the Drive Belt. See Fig. 2.
6. Disengage the Idler Arm Spring. See Fig. 2.
7. Detach the Protector. See Fig. 2.
   Remove the one fastening screw and disconnect the arranged leads.

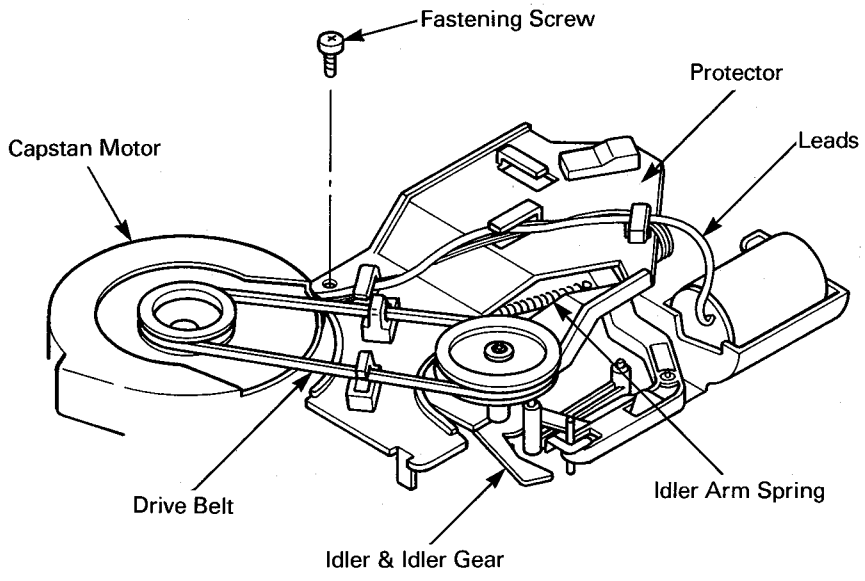


Fig. 2

8. Detach the Idler Gear.
8.1 Remove the stopper washer. See Fig. 3.
8.2 Remove the Idler Pulley. See Fig. 3.
   Note: The Idler Gear should not be removed together with the Idler Pulley. Hold the main body of the Ilder and remove the Pulley by lifting it straight up.

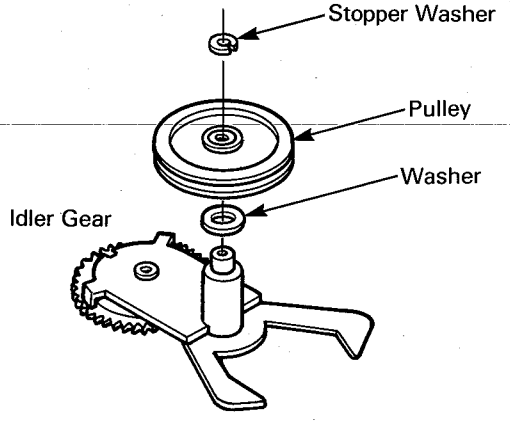


Fig. 3

8.3 Remove the Idler Gear. See Fig. 4.
As the Idler Gear touches the Reel Bracket, slightly bend the main body of the gear with both hands and quickly pull it out.

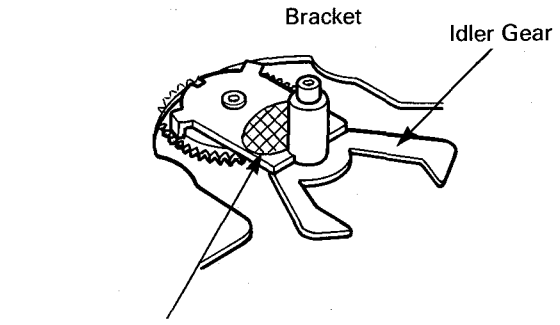


Fig. 4

NOTE:
The brackets having the serial number date codes later than 8516 are chamferred. Therefore, the idler gear can be smoothly pulled out without the idler gear being bent.

9. Detach the Idler. See Fig. 5.
9.1 Remove the Stopper Washer fastening Idler.
9.2 Move the Rubber Wheel toward the Take-Up Reel side. Remove it from the rail, and pull out Idler. Move the wheel and remove it from the rail.

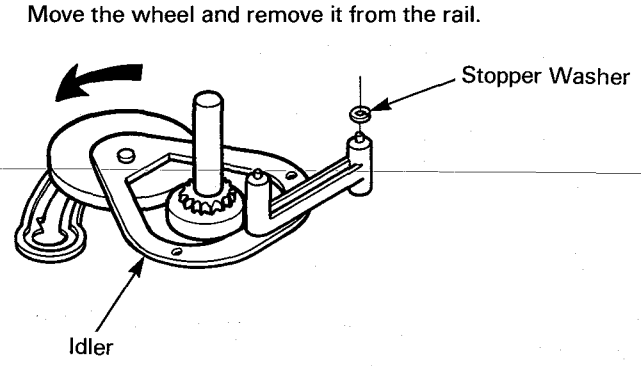


Fig. 5

ASSEMBLY PRECAUTIONS

Exercise the assembly procedures in the reverse order of the disassembly ones.

Note 1: Be sure to put the Idler Wheel in the rail.

Note 2: Be sure to engage the Rubber Wheel with Wheel on the shaft. See Fig. 6. These parts should be engaged.

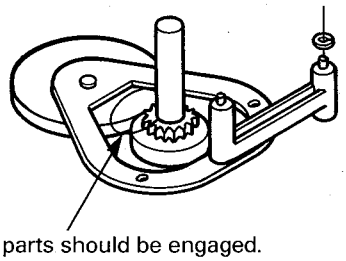


Fig. 6

Note 3: When the Idler Gear is pushed into the inside of the Bracket, slightly bend the main body of the Gear and insert the gear as quickly as possible. See Fig. 4.

Note 4: When the Idler Pulley is installed onto the Idler Gear Shaft, leave a little clearance between the Pulley and the Idler Gear Shaft. See Fig. 7.

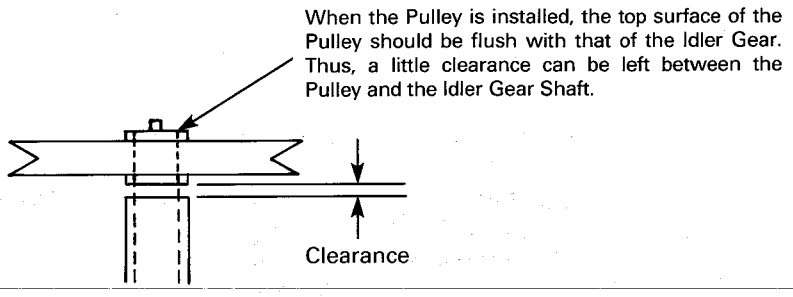

When the Pulley is installed, the top surface of the Pulley should be flush with that of the Idler Gear. Thus, a little clearance can be left between the Pulley and the Idler Gear Shaft.
Clearance

Fig. 7

* If the Pulley is incorrectly installed (no clearance), smooth rotation cannot be obtained, and CUE, REV, F.F., and REW malfunctions may be caused.

Note 5: Do not lose the washers and stopper washers for each shaft. Also, do not forget to install them.

FVH-P615

SCHEMATIC DIAGRAM & PRINTED CIRCUIT BOARD

(EUROPE)

TABLE OF CONTENTS

OVER ALL WIRING DIAGRAM ..... Ⓐ
VIDEO CIRCUIT DIAGRAM ..... Ⓑ
AUDIO CIRCUIT DIAGRAM ..... Ⓒ
VIDEO AUDIO CIRCUIT P.C.B. ..... Ⓓ
SYSTEM CONTROL SERVO CIRCUIT DIAGRAM ..... Ⓔ
SYSTEM CONTROL SERVO CIRCUIT P.C.B. ..... Ⓕ
TUNER RF CONVERTER CIRCUIT DIAGRAM ..... Ⓖ
REAR TERMINAL CIRCUIT P.C.B. ..... Ⓗ
TIMER CIRCUIT DIAGRAM ..... Ⓘ
TIMER CIRCUIT P.C.B. ..... Ⓙ
POWER CIRCUIT DIAGRAM ..... Ⓚ
POWER CIRCUIT P.C.B. ..... Ⓛ
KEY FUNCTION CIRCUIT DIAGRAM ..... Ⓜ
KEY FUNCTION CIRCUIT P.C.B. ..... Ⓝ
MUTE CIRCUIT DIAGRAM ..... Ⓞ
MUTE CIRCUIT P.C.B. ..... Ⓟ
TERMINAL VIEW ..... Ⓠ

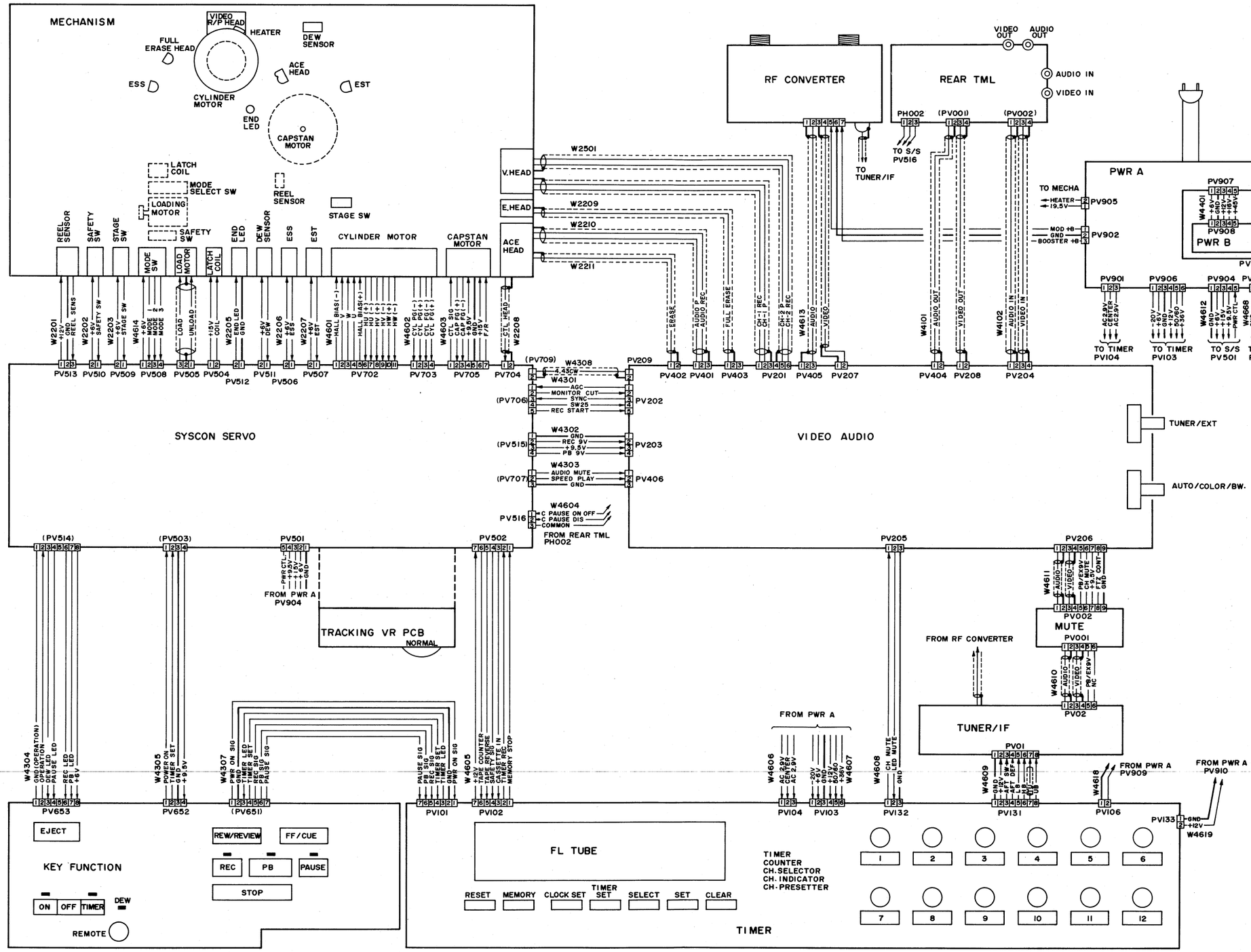
PRODUCTION SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A UNIT. COMPONENTS INDICATED BY THE SYMBOL ⚠ IN THIS SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAVE SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RCOMMENDED THAT ONLY PARTS SPECIFIED ON THE ATTACHED PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY THE SYMBOL.

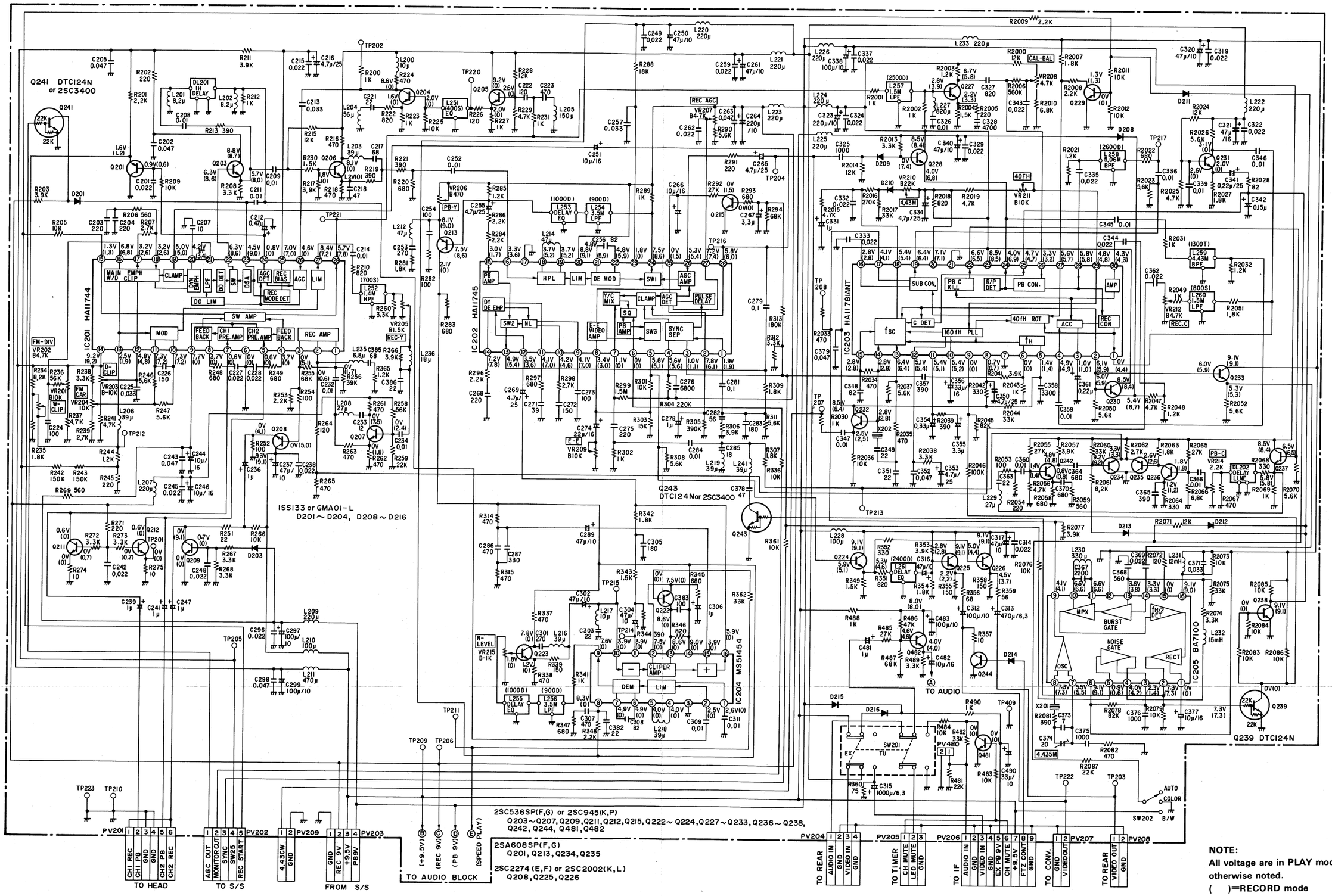
NOTES:

1. All resistance values in "OHMS" unless otherwise noted. (K=1,000 M=1,000,000)
2. All inductance values in "mH" unless otherwise noted. μ=micro henry
3. Voltage reading may vary $\pm$20%
4. Unless otherwise noted in schematic diagram, all capacitors less than 1 are expressed in mfd (μF) and the values larger than 1 are in pF.
5. This is a fundamental circuit diagram. Some production changes may be made without revision of the diagram.

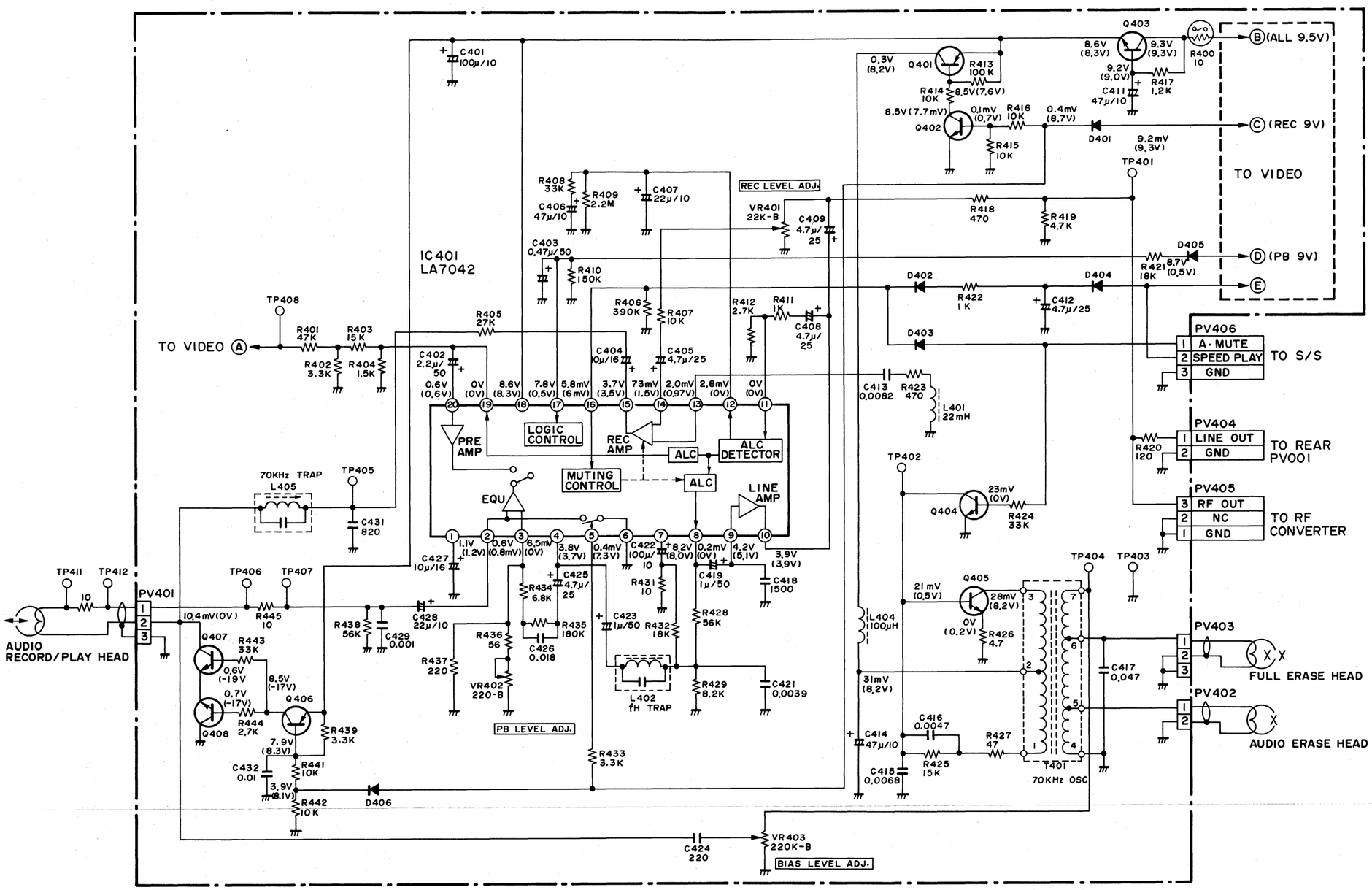
OVER ALL WIRING DIAGRAM



VIDEO CIRCUIT DIAGRAM



AUDIO CIRCUIT DIAGRAM



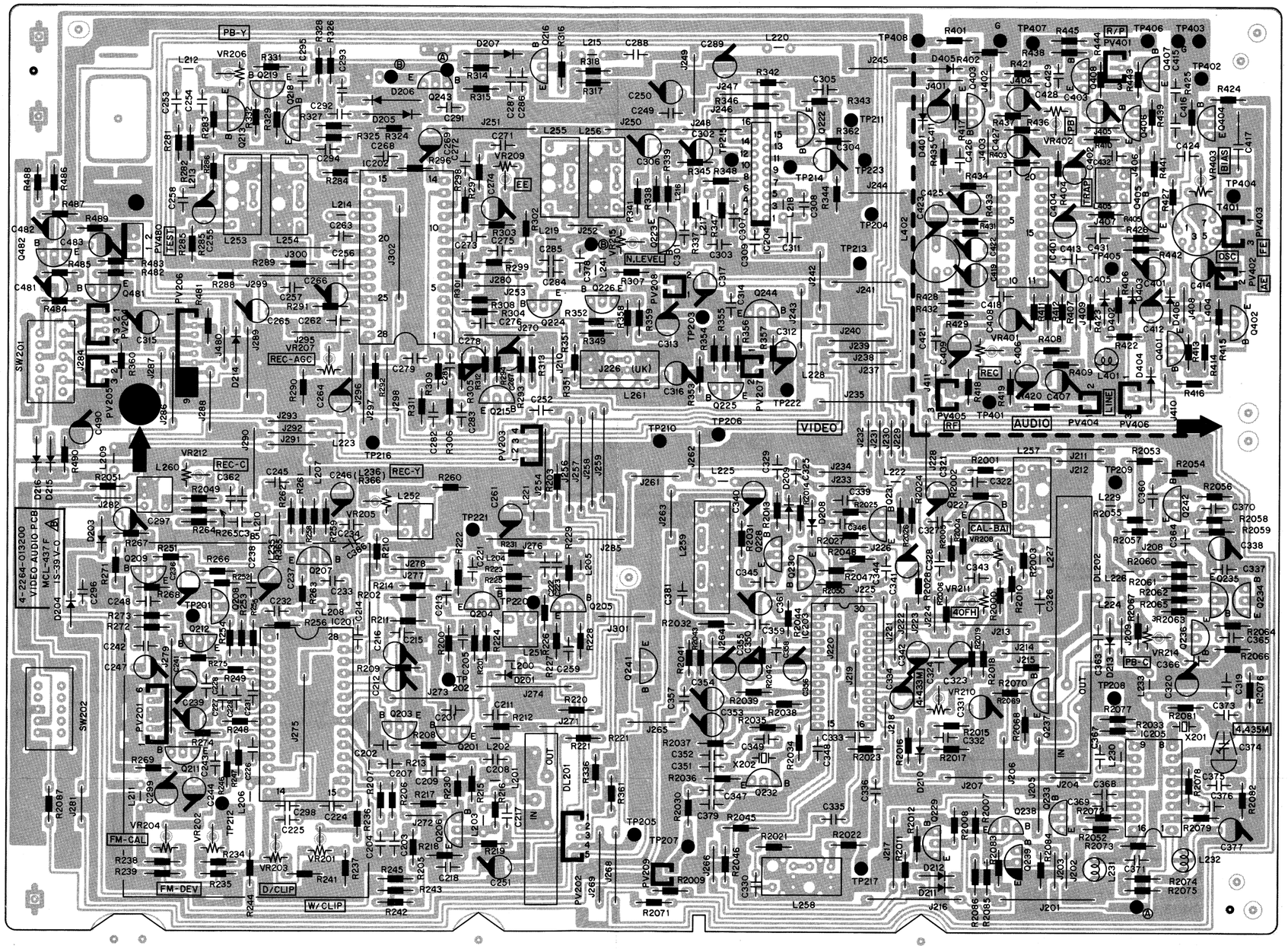
Q401 -------- 2SA608SP(F,G)
Q402, Q404 --- 2SC536SP(F,G) or 2SC945 (K,P)
Q403, Q405 --- 2SD734 (F,G)
Q406 -------- 2SA1016(F,G)
Q407, Q408 --- 2SC1845

D401 ~ D406 --- 1SS133 or GMA01-L

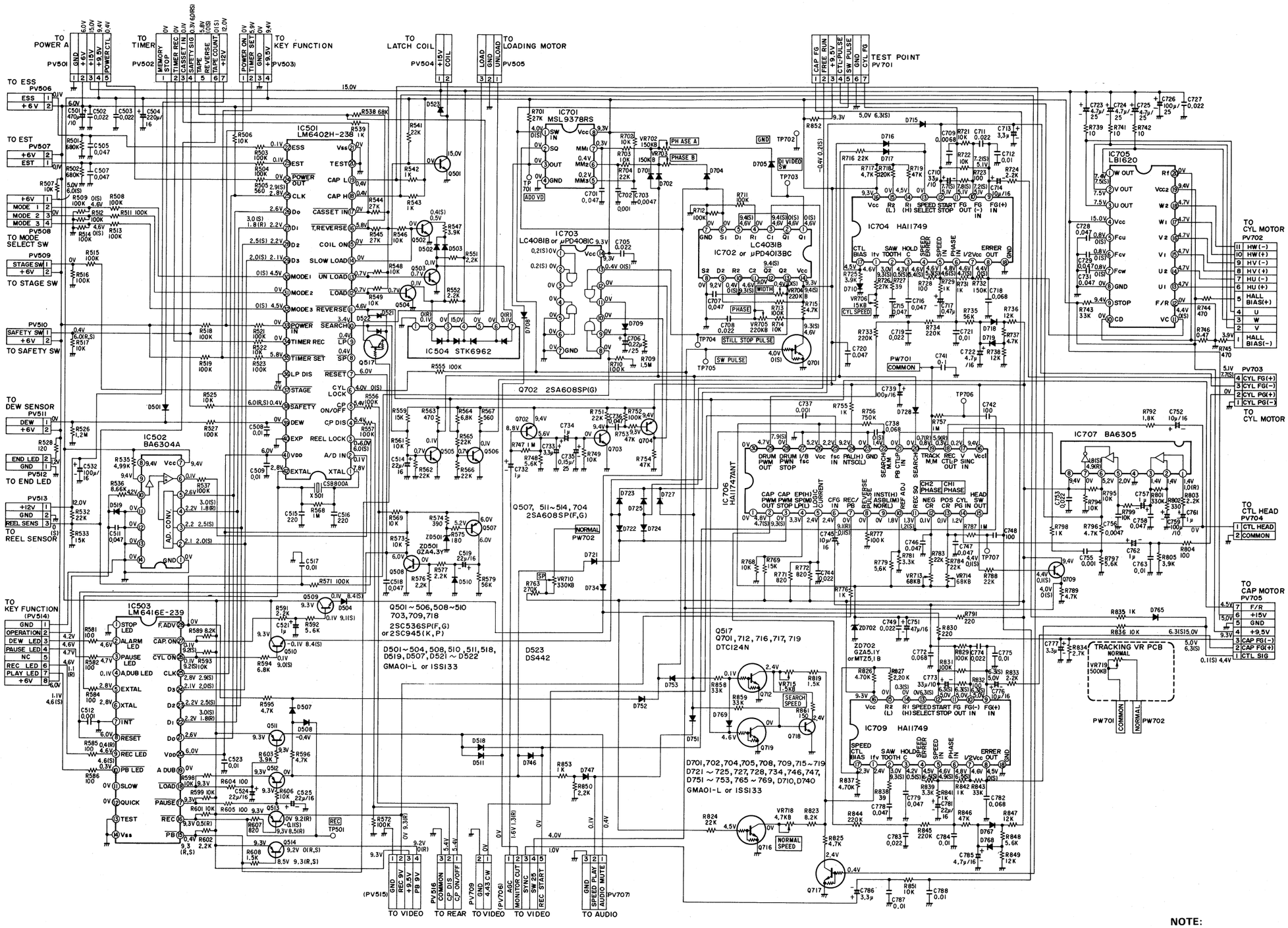
All voltage are in PLAY mode unless otherwise noted.
( )=RECORD mode

©

VIDEO AUDIO CIRCUIT P.C.B.

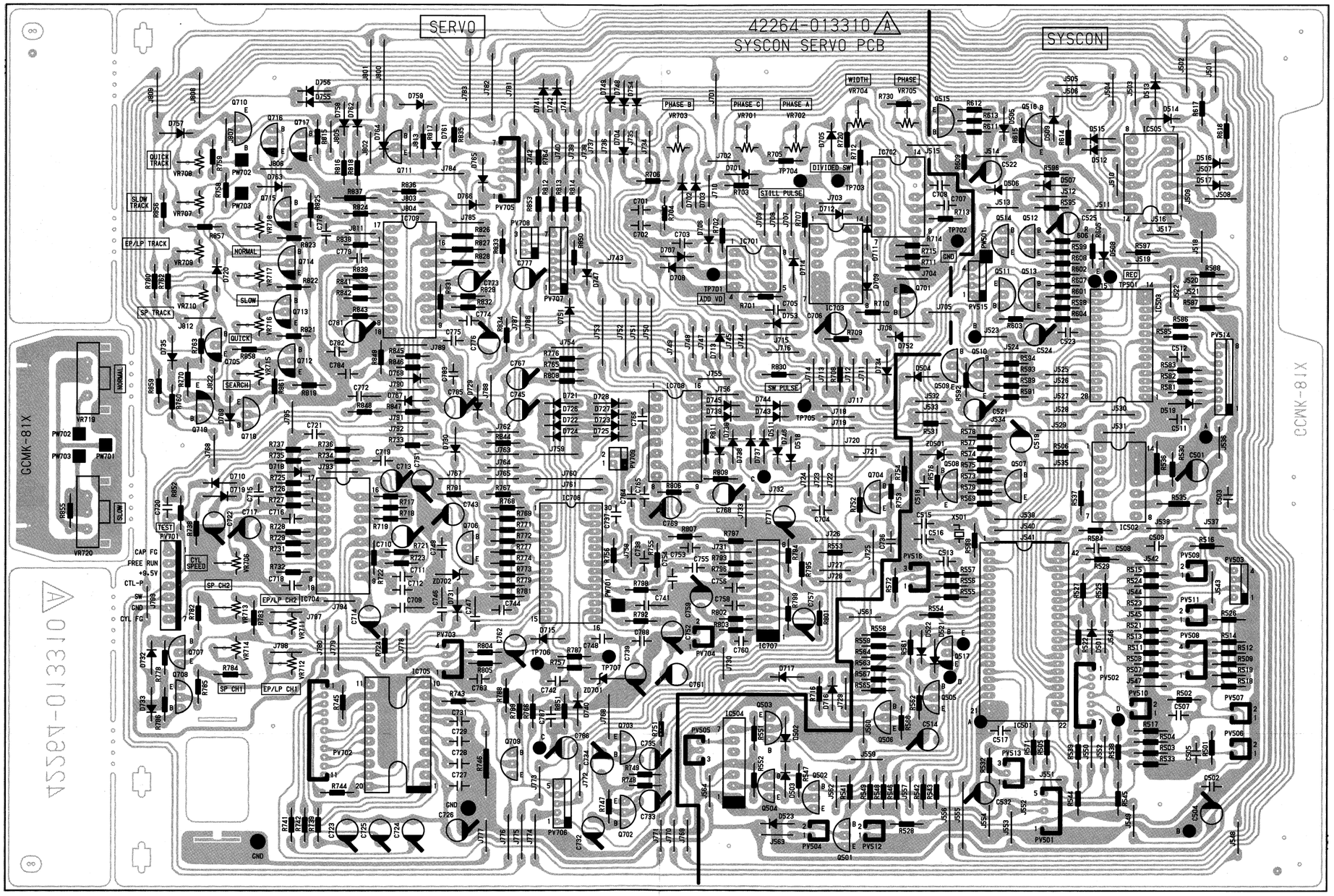


SYSTEM CONTROL SERVO CIRCUIT DIAGRAM

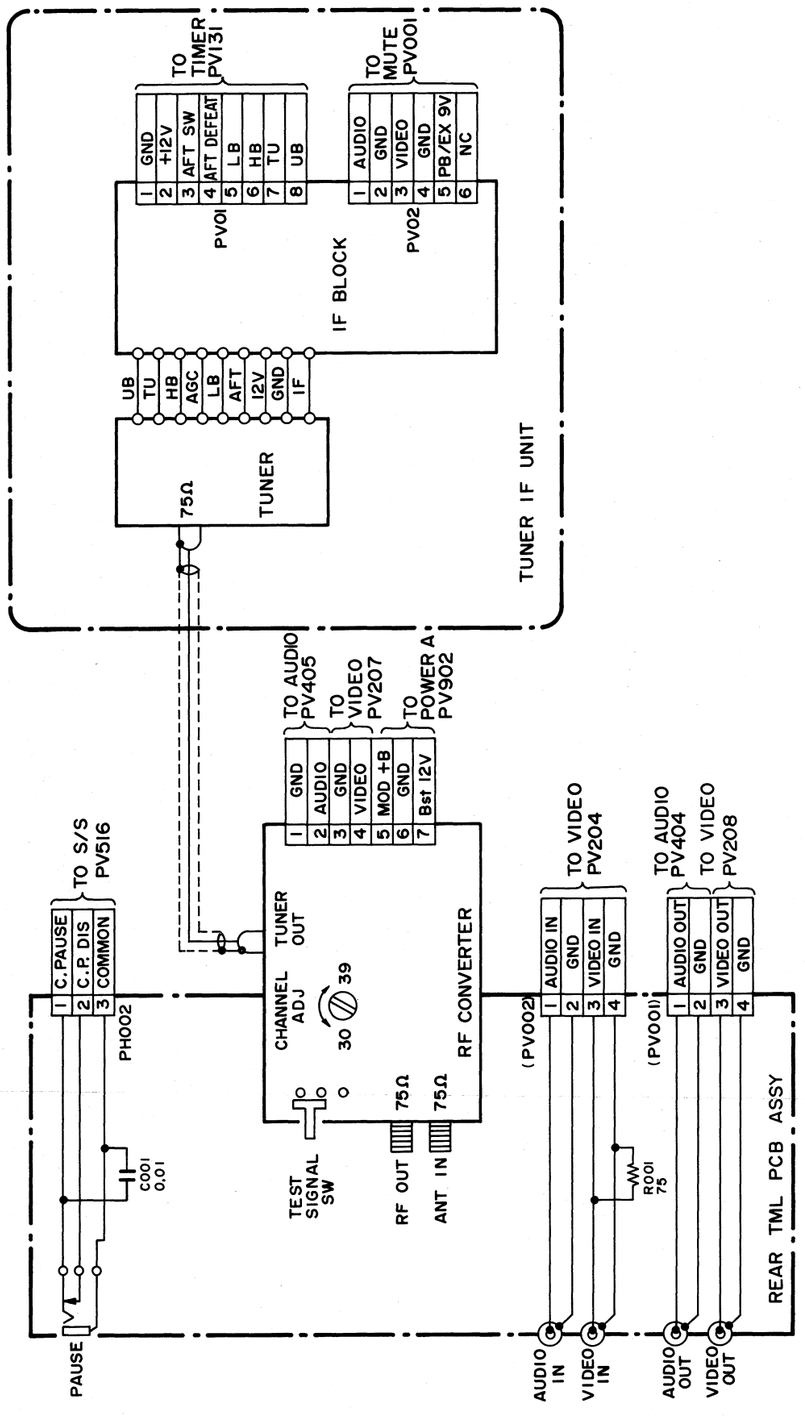


NOTE:
All voltage are in PLAY, RECORD and STOP mode unless otherwise noted.
(R)=RECORD mode only
(S)=STOP mode only

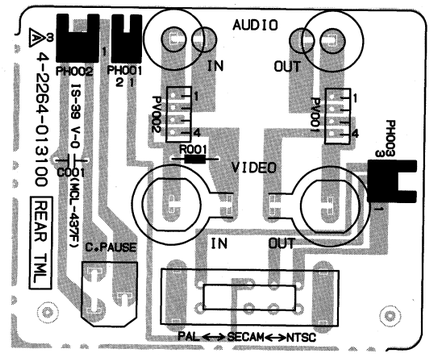
SYSTEM CONTROL SERVO CIRCUIT P.C.B.



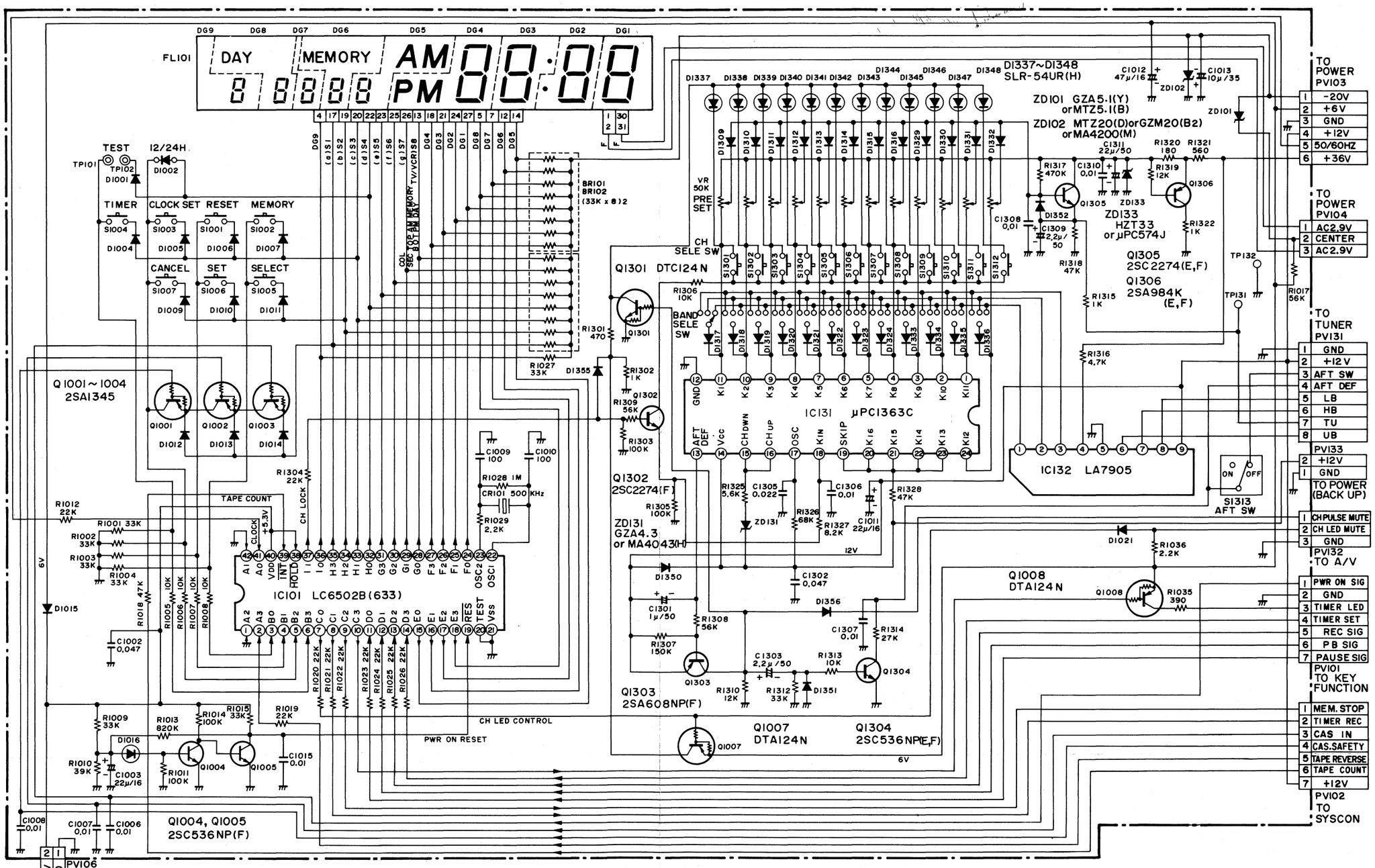
TUNER RF CONVERTER CIRCUIT DIAGRAM



REAR TERMINAL CIRCUIT P.C.B.



TIMER CIRCUIT DIAGRAM

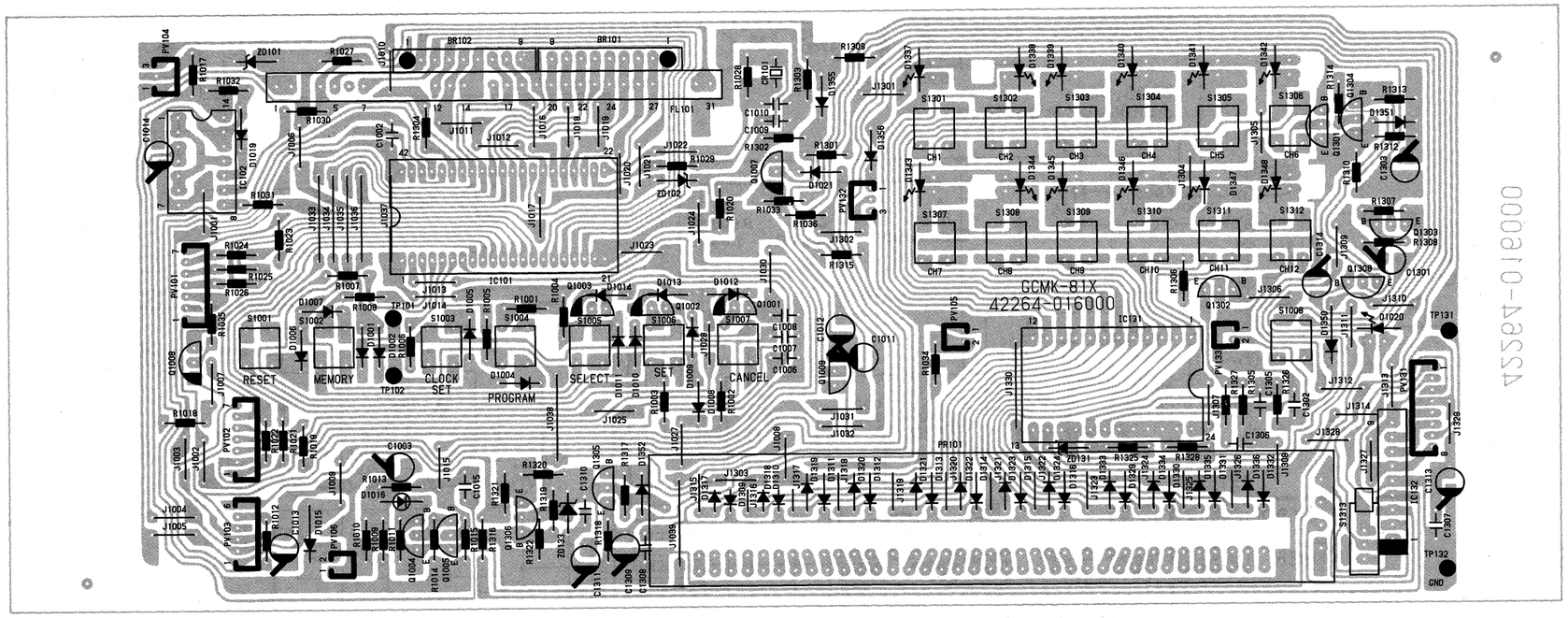


DI001, DI004~DI007, DI009~DI014, DI021---- GMA01-L or ISS133
DI351, DI355, DI356

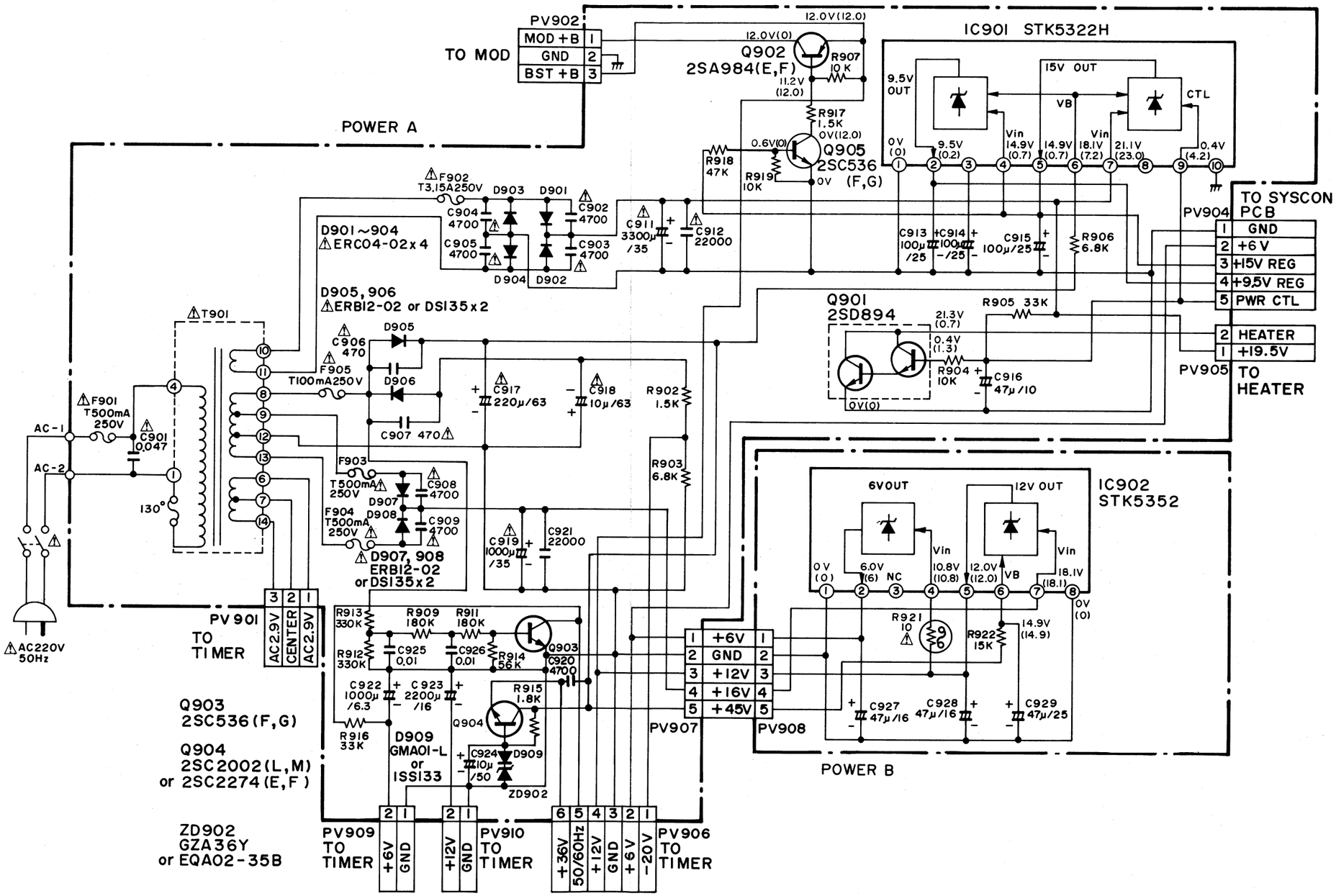
DI016 -----LTZ-G15

DI015, DI350--- DSI35E or ERB12-01
DI352, DI309~DI324, DI329~DI336 ---GMA01 or ISS131

TIMER CIRCUIT P.C.B.

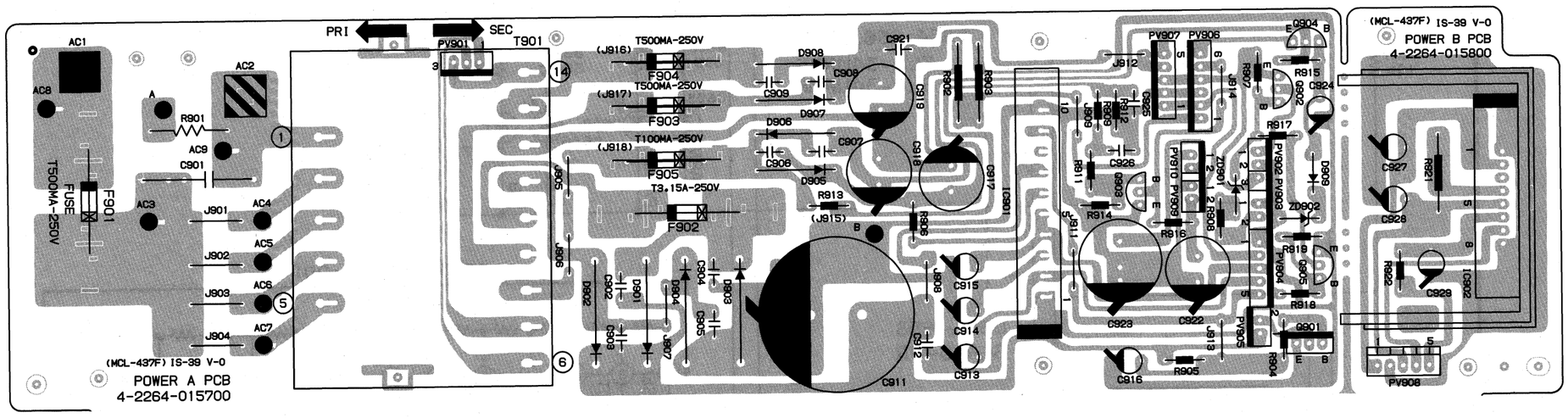


POWER CIRCUIT DIAGRAM

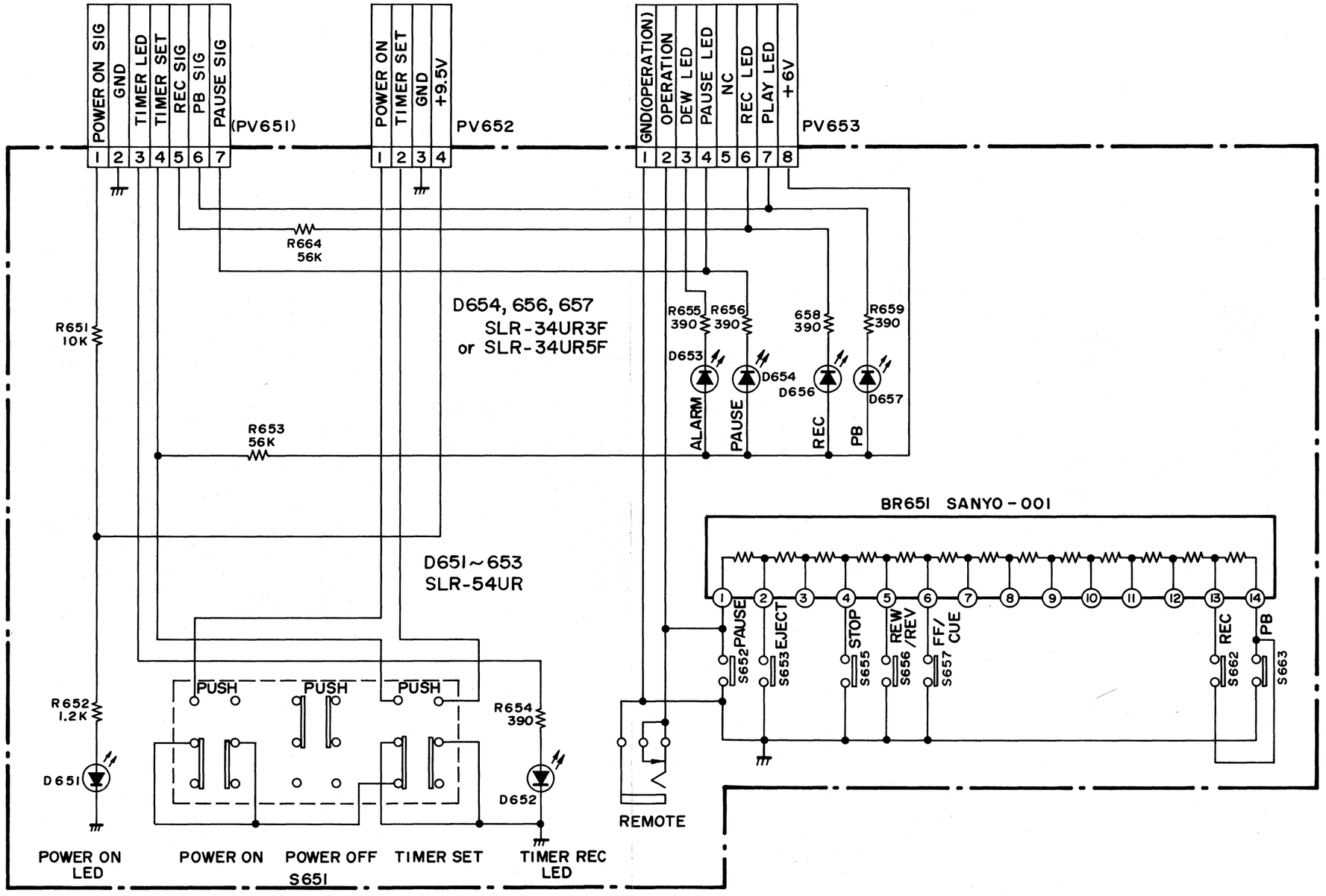


NOTES:
All voltage are in PLAY, RECORD and STOP mode unless otherwise noted.
(S)=POWER OFF mode only

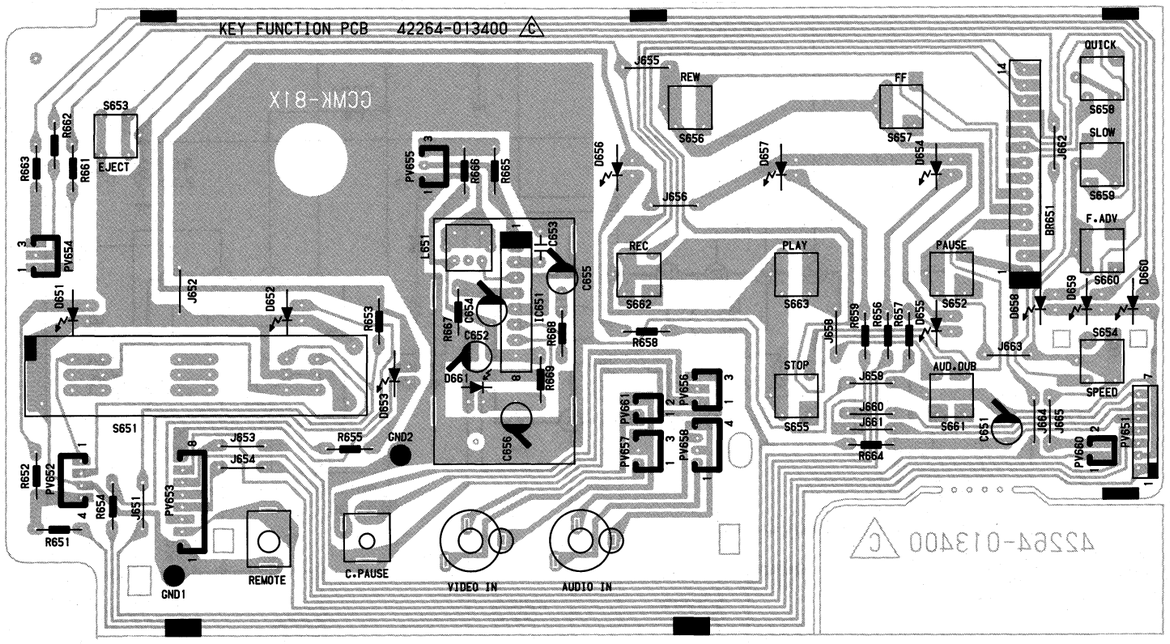
POWER CIRCUIT P.C.B.



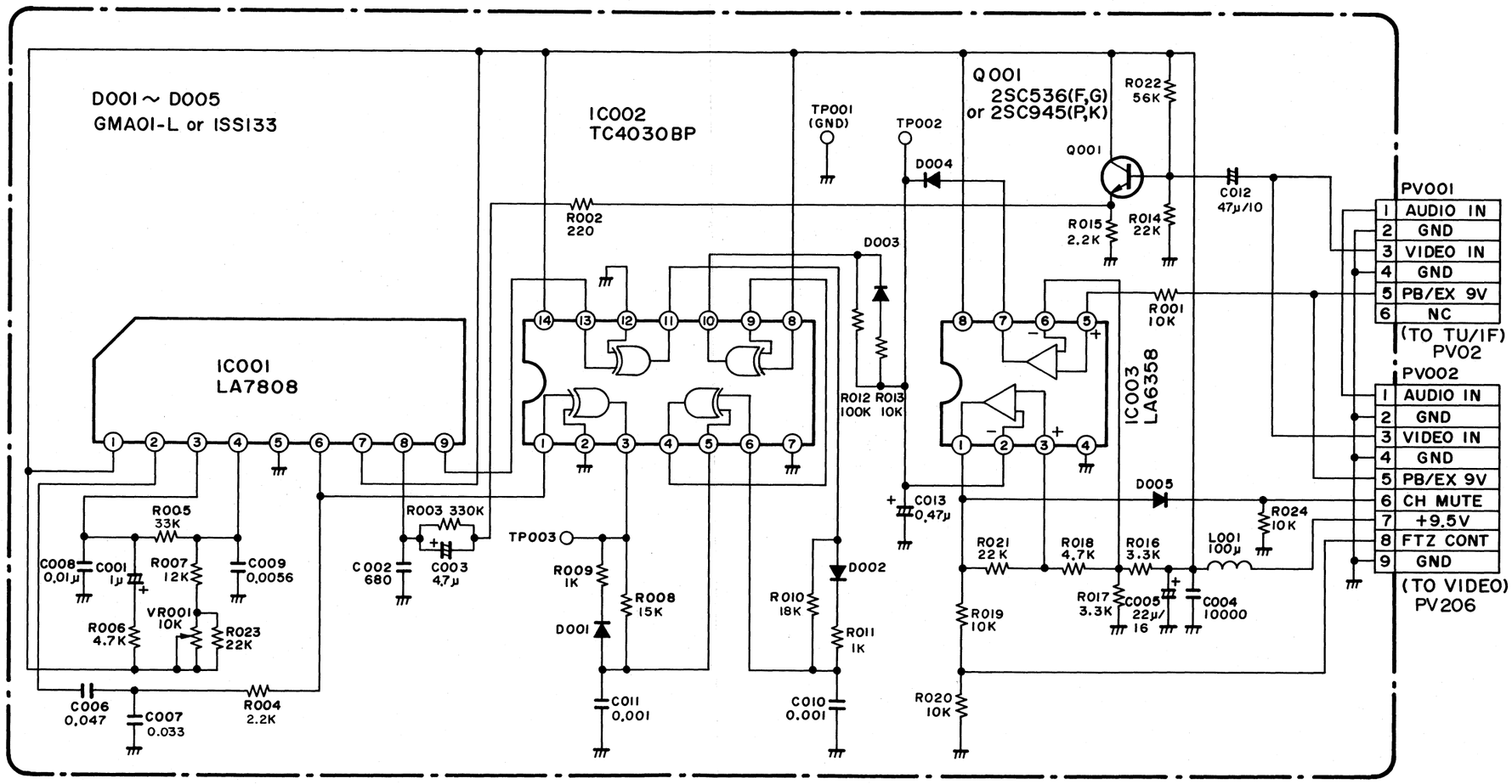
KEY FUNCTION CIRCUIT DIAGRAM



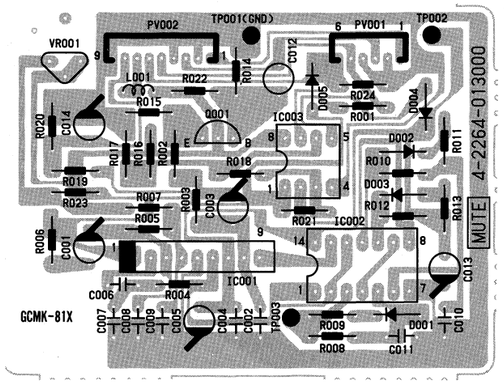
KEY FUNCTION CIRCUIT P.C.B.



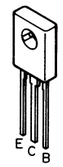
MUTE CIRCUIT DIAGRAM



MUTE CIRCUIT P.C.B.

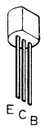


TERMINAL VIEW



2SD894

2SA608SP
2SC536SP



2SA984	2SC2274
2SA1016	2SC3400
2SA1345	2SD734
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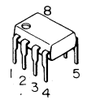
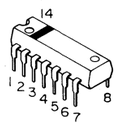
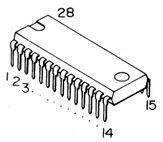
2SC1845	DTA144N
2SC2002	DTC124N



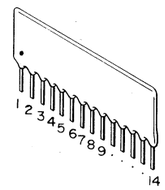
MSL9378RS
LA6358



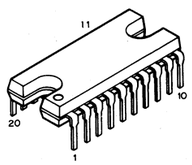
BA6304
LC4013B
LC4013BC
LC4081B
μPD4011BC
μPD4081C
TC4030



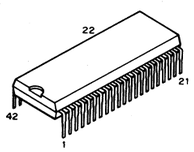
LM6416



SANYO 001



LB1620



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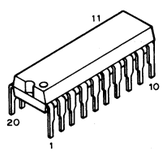
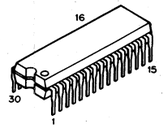


LA7042



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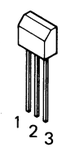

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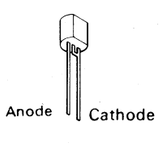

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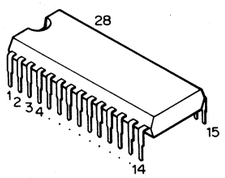

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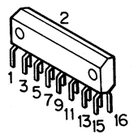

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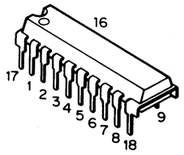

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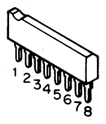

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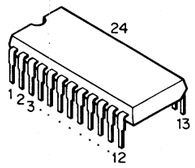

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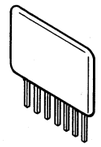

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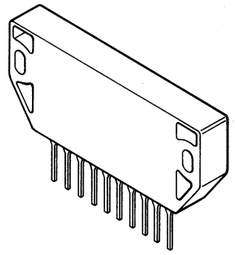

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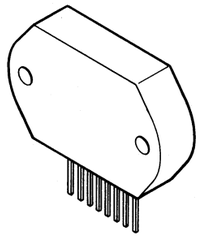

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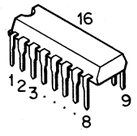

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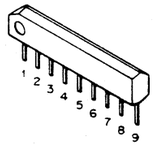

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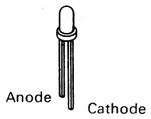

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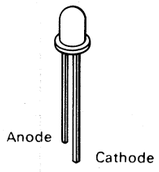

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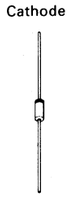

DS442
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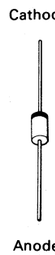

DS135E
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ERB12-02

ERC04-02

NOTE:
E: Emitter C: Collector B: Base
1: VCC 2: GND 3: OUT

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